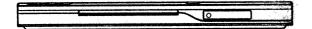


# DVD VIDEO PLAYER SERVICE MANUAL

**MODEL: DZ9500(DZ9500CE2D)** 

#### CAUTION

BEFORE SERVICING THE UNIT, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL.



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## **SECTION 1**

## **SUMMARY**

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#### PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

CAUTION: DO NOT ATTEMPT TO MODIFY THIS PRODUCT IN ANY WAY, NEVER PERFORM CUSTOMIZED INSTALLATIONS WITHOUT MANUFACTURER'S APPROVAL UNAUTHORIZED MODIFICATIONS WILL NOT ONLY VOID THE WARRANTY. BUT MAY LEAD TO YOUR BEING LIABLE FOR ANY RESULTING PROPERTY DAMAGE OR USER INJURY.

SERVICE WORK SHOULD BE PERFORMED ONLY AFTER YOU ARE SERVICE WORK SHOULD BE PERFORMED ONLY AFTER TO STATE THOROUGHLY FAMILIAR WITH ALL OF THE FOLLOWING SAFETY CHECKS AND SERVICING GUIDELINES. TO DO OTHERWISE, INCREASES THE RISK OF POTENTIAL HAZARDS AND INJURY TO THE

WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

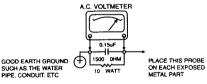
#### SAFETY CHECKS

AFTER THE ORIGINAL SERVICE PROBLEM HAS BEEN CORRCTED. A CHECK SHOULD BE MADE OF THE FOLLOWING.

#### SUBJECT : FIRE & SHOCK HAZARD

- BE SURE THAT ALL COMPONENTS ARE POSITIONED IN SUCH A WAY AS TO AVOID POSSIBILITY OF ADJACENT COMPONENT SHORTS. THIS IS ESPECIALLY IMPORTANT ON THOSE MODULES WHICH ARE TRANSPORTED TO AND FROM THE REPAIR SHOP
- 2. NEVER RELEASE A REPAIR UNLESS ALL PROTECTIVE DEVICES SUCH AS INSULATORS, BARRIERS, COVERS, SHIELDS, STRAIN RELIEFS, POWER SUPPLY CORDS, AND OTHER HARDWARE HAVE BEEN REINSTALLED PER ORIGINAL DESIGN. BE SURE THAT THE SAFETY PURPOSE OF THE POLARIZED LINE PLUG HAS NOT BEEN
- 3. SOLDERING MUST BE INSPECTED TO DISCOVER POSSIBLE COLD SOLDER JOINTS, SOLDER SPLASHES OR SHARP SOLDER POINTS. BE CERTAIN TO REMOVE ALL LOOSE FOREIGN PARTICLES.
- CHECK FOR PHYSICAL EVIDENCE OF DAMAGE OR DETERIORATION
   TO PARTS AND COMPONENTS. FOR FRAYED LEADS, DAMAGED
   INSULATION (INCLUDING A.C. CORD). AND REPLACE IF NECESSARY
   FOLLOW ORIGINAL LAYOUT, LEAD LENGTH AND DRESS.
- 5. NO LEAD OR COMPONENT SHOULD TOUCH A RECIVING TUBE OR A RESISTOR RATED AT 1 WATT OR MORE. LEAD TENSION AROUND PROTRUNING METAL SURFACES MUST BE AVOIDED.
- ALL CRITICAL COMPONENTS SUCH AS FUSES, FLAMEPROOF RESISTORS, CAPACITORS, ETC. MUST BE REPLACED WITH EXACT PACTORY TYPES, DO NOT USE REPLACEMENT COMPONENTS OTHER THAN THOSE SPECIFIED OR MAKE UNRECOMMENDED CIR-CHIT MODIFICATIONS
- CUIT MODIFICATIONS.

  7. AFTER RE-ASSEMBLY OF THE SET ALWAYS PERFORM AN A.C. LEAKAGE TEST ON ALL EXPOSED METALLIC PARTS OF THE CABINET, THE CHANNEL SELECTOR KNOB, ANTENNA TERMINALS, HANDLE AND SCREWS) TO BE SURE THE SET IS SAFE TO OPERATE WITHOUT DANGER OF ELECTRICAL SHOCK. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST USE AN A.C. VOLT. METER, HAVING SOOD OHMS PER YOLT OR MORE SENSITIVTY, IN THE FOLLOWING MANNER; CONNECT A 1500 OHM 10 WATT RESISTOR, PARALLELED BY ON 15 WHO TO NOT THE PROCESSION OF THE SOURCE WATER PIPE COMBINITION OF THE EXPOSED METALLIC PARTS, ONE AT A TIME. DUIT, ETC.) AND THE EXPOSED METALLO PARTS, ONE AT A TIME.
  MEASURE THE A.C. VOLTAGE ACROSS THE COMBINATION OF 1500
  OHM RESISTOR AND .15 MFD CAPACITOR. REVERSE THE A.C. PLUG
  AND REPEAT A.C. VOLTAGE MEASUREMENTS FOR EACH EXPOSED
  METALLIC PART. VOLTAGE MEASURED MUST NOT EXCEED 75
  VOLTS RMS. THIS CORRESPONDS TO 0.5 MILLIAMP A.C ANY
  VALUE EXCEEDING THIS LIMIT CONSTITUTES A POTENTIAL SHOCK
  MATADALM MUST BE CORRECTED IN MEDIATELY. HAZARD AND MUST BE CORRECTED IMMEDIATELY.



#### SUBJECT: GRAPHIC SYMBOLS

SUCH AS THE WATER PIPE, CONDUIT, ETC

THE LIGHTNING FLASH WITH APROWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED TO ANGEROUS VOLTAGE. THAT MAY BE OF SUFFICIENT MAG-NITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.

THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIAN-GLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

SUBJECT: X-RADIATION

- SUBJECT : X-HAUMINN

  I. BE SURE PROCEDURES AND INSTRUCTIONS TO ALL SERVICE PERSONNEL COVERT THE SUBJECT OF X-RADIATION. THE ONLY POTENTIAL SOURCE OF X-RAYS IN CURRENT TV. RECEIVERS IS THE PICTURE TUBE. HOWEVER, THIS TUBE DOES NOT EMIT X-RAYS WHEIN
  THE HIGH VOLTAGE IS AT THE FACTORY SPECIFIED LECULOPERA
  PROPER VALUE IS GIVEN BY THE APPLICABLE CHEMICAL OF THE
  TUBE TUBE OF HIGH VOLTAGE SUPPLY AND, UNDER CERTAIN
  CLUMSTANCES, MAY PRODUCE RADIATION IN EXCESS OF DESIRABILE I FLYEN.
- ONLY FACTORY SPECIFIED C.R.T. ANODE CONNECTORS MUST BE USED. DEGAUSSING SHIELDS ALSO SERVE AS X-RAY SHIELD IN COLOR SETS, ALWAYS RE-INSTALL THEM.
- 3. IT IS ESSNTIAL THAT SERVICE PERSONNEL HAVE AVAILABLE AN IT IS ESSNITAL THAT SERVICE PERSONNEL HAVE AVAILABLE ACCURATE AND RELIABLE HIGH VOLTAGE METER. THE CALIBRA TION OF THE METER SHOULD BE CHECKED PERIODICALLY AGAINST A REFERENCE STANDARD, SUCH AS THE ONE AVAILABLE AT YOUR DISTRIBUTOR.
- WHEN THE HIGH VOLTAGE CIRCUITRY IS OPERATING PROPERLY THERE IS NO POSSIBILITY OF AN X-RADIATION PROBLEM. EVERY TIME A COLOR CHASSIS IS SERVICED. THE BRIGHTNESS SHOULD BE RUN UP AND DOWN WHILE MONITORING THE HIGH VOLTAGE BE RIJN UP AND DOWN WHILE MONITORING THE HIGH VOLTAGE DOES WITH A METER TO BE CERTIAIN THAT THE HIGH VOLTAGE DOES NOT EXCEED THE SPECIFIED VALUE AND THAT IT IS REGULATING CORRECTLY, WE SUGGEST THAT YOU AND YOUR SERVICE ORGANIZATION REVIEW TEST PROCEDURES SO THAT VOLTAGE REGULATION IS ALWAYS CHECKED AS A STANDARD SERVICING PROCEDURE. AND THAT THE HIGH VOLTAGE READING BE RECORDER ON VOLTAGE AND THAT THE HIGH VOLTAGE READING BE RECORDER ON THE STANDARD SERVICING PROCEDURE. AND THAT THE HIGH VOLTAGE READING BE RECORDER ON EACH CUSTOMER'S INVOICE.
- WHEN TROUBLESHOOTING AND MAKING TEST MEASUREMENTS IN A PRODUCT WITH A PROBLEM OF EXCESSIVE HIGH VOLTAGE. AVOID BEING UNNECESSARILY CLOSE TO THE PICTURE TUBE AND THE HIGH VOLTAGE SUPPLY. DO NOT OPERATE THE PRODUCT LONGER THAN IS NECESSARY TO LOCATE THE CAUSE OF EXCES SIVE VOLTAGE.
- REFER TO HV. 8+ AND SHUTDOWN ADJUSTMENT PROCEDURES DESCRIBED IN THE APPROPRIATE SCHEMATIC AND DIAGRAMS (WHERE USED).

#### SUBJECT: IMPLOSION

- ALL DIRECT VIEWED PICTURE TUBES ARE EQUIPPED WITH AN INTE ALL DIRECT VIEWED PICTORE TODES ARE EXCOUPED WITH A WITE GRAL IMPLOSION PROTECTION SYSTEM, BUT CARE SHOULD BE TAKEN TO AVOID DAMAGE DURING INSTALLATION, AVOID SCRATCHING THE TUBE. IF SCRATCHED REPLACE IT.
- 2. USE ONLY RECOMMENDED FACTORY REPLACEMENT TUBES.

#### SUBJECT: TIPS ON PROPER INSTALLATION

- NEVER INSTALL ANY PRODUCT IN A CLOSED-IN RECESS, CUBBY-HOLE OR CLOSELY FITTING SHELF SPACE. OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
- AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO INSTALLATIONS WHERE DEW IS A FACTOR, NEAR STEAM RADIA-TORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
- AVOID PALCEMENT WHERE DRAPERIES MAY OBSTRUCT REAR . AVOID FACCEMENT WHERE UNAPERIES MAY OBSTRUCT REAR VENTING. THE CUSTOMER SHOULD ALSO AVOID THE USE OF DECORATIVE SCARVES OR OTHER COVERINGS WHICH MIGHT OBSTRUCT VENTILATION.
- . WALL AND SHELF MOUNTED INSTALLATIONS USING A COMMER . WALL AND SHELF MOUNTED INSTALLATIONS USING A COMMEN-IOLA MOUNTING KIT. MUST FOLLOW THE FACTORY APPROVED MOUNTING INSTRUCTIONS A PRODUCT MOUNTED TO A SHELF OR PLATFORM MUST RETAIN ITS ORIGINAL FEET (OR THE EQUIVALENT THICKNESS IN SPACERS) TO PROVIDE ADEQUATE AIR FLOW ACROSS THE BOTTOM, BOLTS OR SCREWS USED FOR FASTENERS MUST NOT TOUCH ANY PARTS OR WIRING. PERFORM LEAKAGE TEST ON CUSTOMIZED INSTALLATIONS.
- CAUTION CUSTOMERS AGAINST THE MOUNTING OF A PRODUCT ON SLOPING SHELF OR A TILTED POSITION, UNLESS THE PRODUCT IS PROPERLY SECURED.
- 6. A PRODUCT ON A ROLL-ABOUT CART SHOULD BE STABLE ON ITS MOUNTING TO THE CART. CAUTION THE CUSTOMER ON THE HAZARDS OF TRYING TO ROLL A CART WITH SMALL CASTERS ACROSS THRESHOLDS OR DEEP PILE CARPETS.
- 7. CAUTION CUSTOMERS AGAINST THE USE OF A CART OR STAND WHICH HAS NOT BEEN LISTED BY UNDERWRITERS LABORATORIES, INC. FOR USE WITH THEIR SPECIFIC MODEL OF TELEVISION RECEIVER OR GENERICALLY APPROVED FOR USE WITH T.V.'S OF THE SAME OR LARGER SCREEN SIZE.
- 8. CAUTION CUSTOMERS AGAINST THE USE OF EXTENSION CORDS, EXPLAIN THAT A FOREST OF EXTENSIONS SPROUTING FROM A SIN-GLE OUTLET CAN LEAD TO DISASTROUS CONSEQUENCES TO HOME AND FAMILY

#### SERVICING PRECAUTIONS

data and its supplements and addends, read and follow the SAFETY PRECAUTIONS. NOTE: if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publications, always follow the safety precautions. Remembers Safety First:

#### General Servicing Precautions

in an explosion hazard.

- 1. Always unplug the DVD AC power cord from the AC power source before:
- (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
- (2) Disconnection or reconnecting any internal electrical plug or other electrical connection. (3) Connecting a test substitute in parallel with an elec-
- trolytic canacitor Caution: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result
- 2. Do not spray chemicals on or near this DVD or any of its assemblies.
- 3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner. cotton-tipped swab, or comparable soft applicator. Unless specified otherwise in this service data, lubrication of contacts is not required.
- 4. Do not defeat any plug/socket B+ voltage interlocks with whitch instruments covered by this service manual might be equipped.
- 5. Do not apply AC power to this DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are cerrectly installed.
- 6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

#### Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an insulation resistance meter(500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts (Note 1) should be more than 1M-

Note 1: Accessible Conductive Parts including Metal panels, Input terminals, Earphone jacks, etc.

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices, Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grouned-tip soldering iron to solder or unsolder
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified a "anti-static" can generate electrical charges sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protec tive package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam. aluminum foil, or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

#### **SPECIFICATIONS**

#### · GENERAL

Power requirements:

AC 110-240 V, 50/60 Hz

Power consumption:

8W

Dimensions (Approx.):

430 x 35 x 242 mm (W x H x D) without foot

Weight (Approx.):

1.7 kg

Operating temperature:

5 °C to 35 °C (41 °F to 95 °F)

Operating humidity:

5 % to 90 %

#### OUTPUTS

VIDEO OUT:

1 Vp-p 75 Ω, sync negative, RCA jack x 1 / SCART (TO TV)

AUDIO OUT:

2.0 Vrms (1 KHz, 0 dB), 600 Ω, RCA jack (L, R) x 1 / SCART (TO TV)

DIGITAL OUT (COAXIAL):0.5 V (p-p), 75 Ω, RCA jack x 1

#### · SYSTEM

Laser:

Semiconductor laser, wavelength 650 nm

Signal system:

PAL / NTSC

Frequency response:

DVD (PCM 96 kHz): 8 Hz to 44 kHz

DVD (PCM 48 kHz): 8 Hz to 22 kHz

CD: 8 Hz to 20 kHz

Signal-to-noise ratio:

More than 100 dB (ANALOG OUT connectors only)

Harmonic distortion:

Less than 0.002%

Dynamic range:

More than 95 dB (DVD/CD)

#### · ACCESSORIES

Remote control (1), Batteries (2)

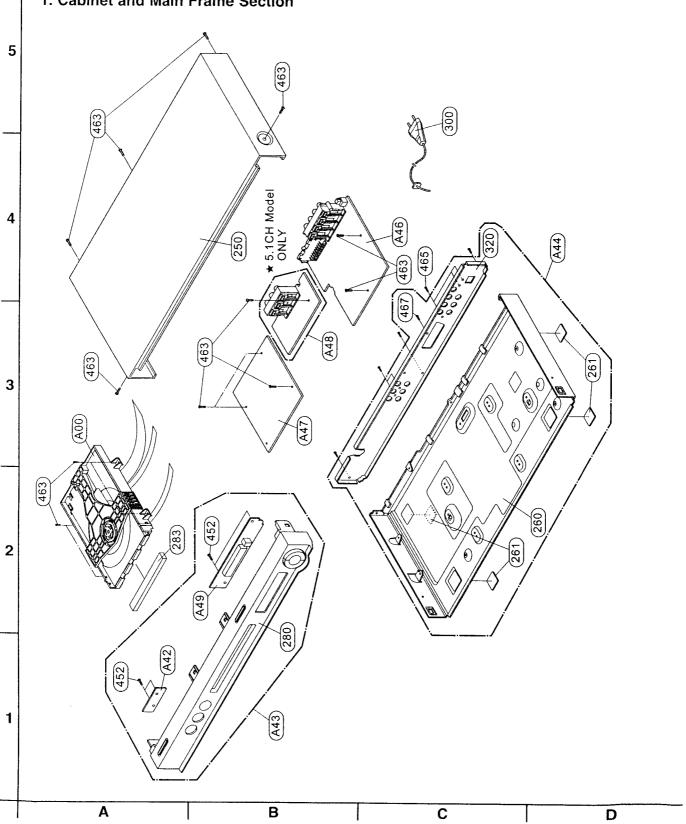
# SECTION 2 CABINET & MAIN CHASSIS

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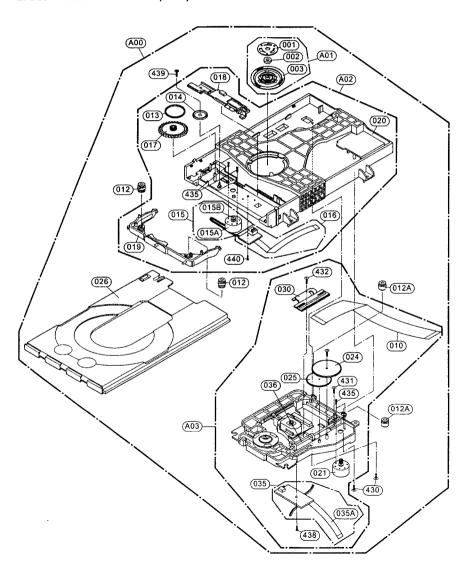
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## **EXPLODED VIEWS**

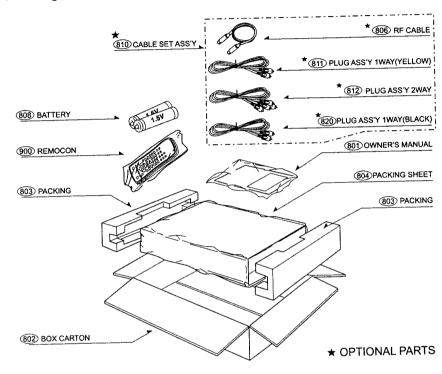
1. Cabinet and Main Frame Section



#### 2. Deck Mechanism Section(DP-9)



## 3. Packing Accessory Section



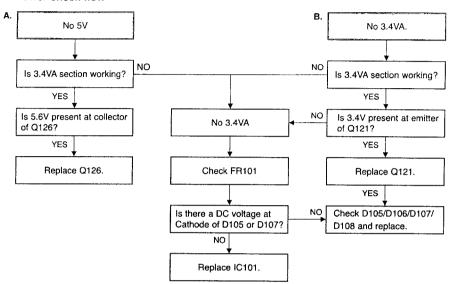
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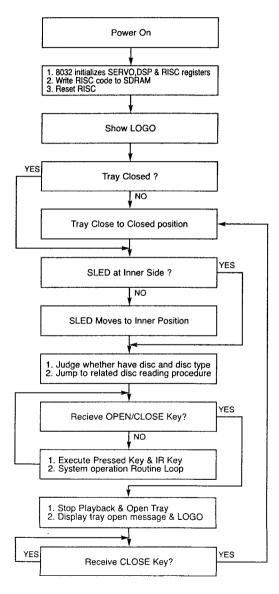
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### **ELECTRICAL TROUBLESHOOTING GUIDE**

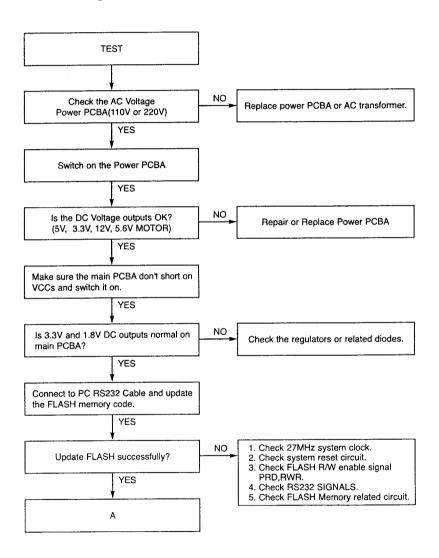
#### 1. Power check flow

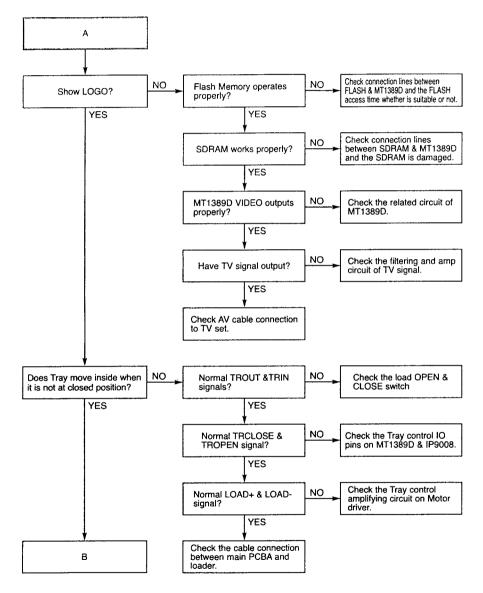


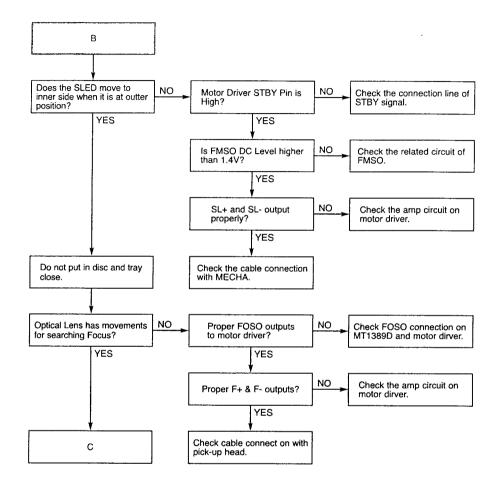
#### 2. System operation flow

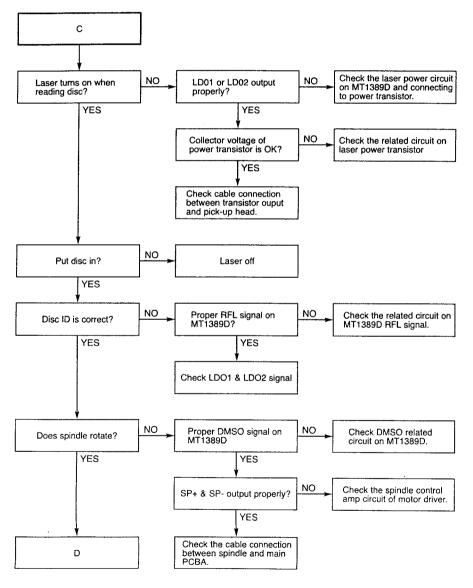


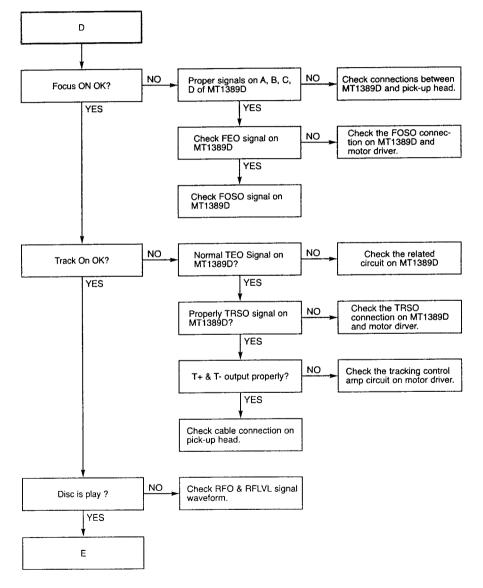
#### 3. Test & debug flow

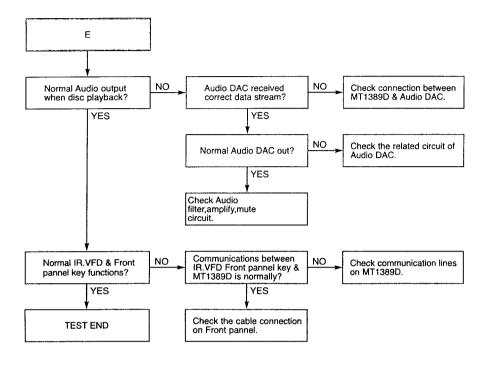












#### DETAILS AND WAVEFORMS ON SYSTEM TEST AND DEBUGGING

SYSTEM 27MHz CLOCK, RESET, FLASH R/W SIGNAL.
 MT1389D main clock is at 27MHz(X501)

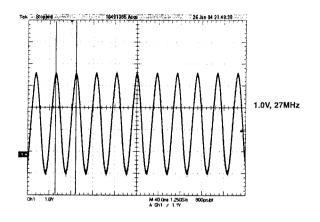


FIG 1-1

2) MT1389D reset is low active.

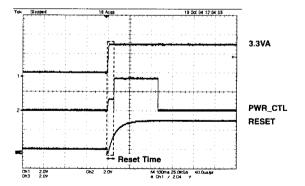
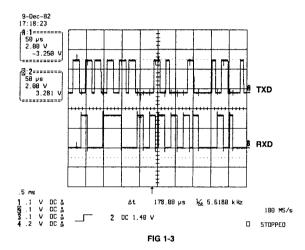


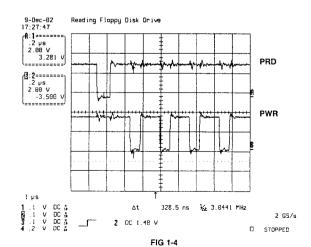
FIG 1-2

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#### 3) RS232 waveform during procedure(Downloading)



#### 4) Flash R/W enable signal during download(Downloading)



#### 2. SDRAM CLOCK



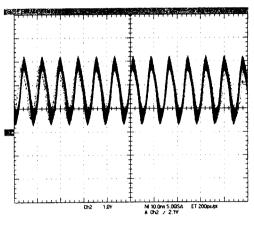


FIG 2-1

#### 3. TRAY OPEN/CLOSE SIGNAL

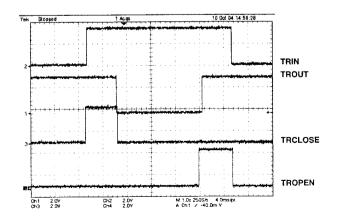
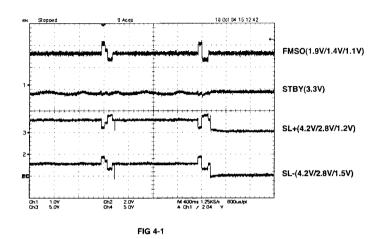
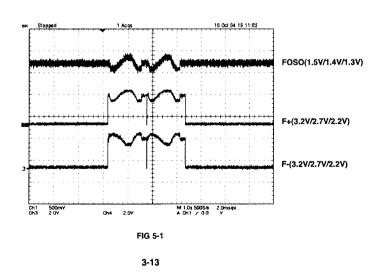


FIG 3-1

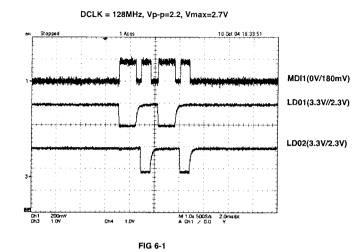
#### 4. SLED CONTROL RELATED SIGNAL (NO DISC CONDITION)



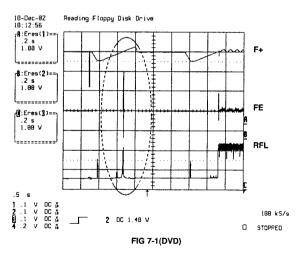
#### 5. LENS CONTROL RELATED SIGNAL(NO DISC CONDITION)



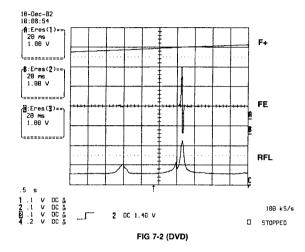
#### 6. LASER POWER CONTROL RELATED SIGNAL(NO DISC CONDITION)

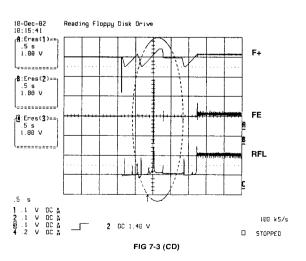


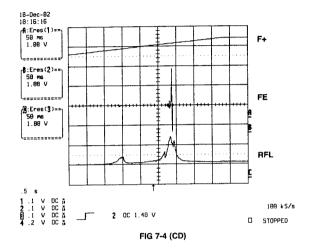
#### 7. DISC TYPE JUDGEMENT WAVEFORM



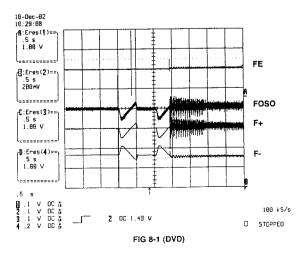
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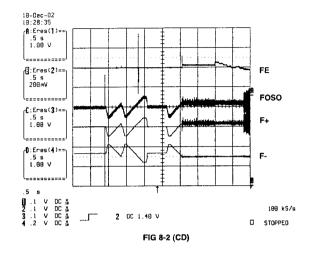




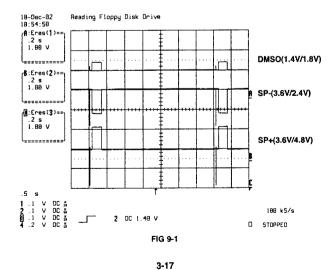


#### 8. FOCUS ON WAVEFORM

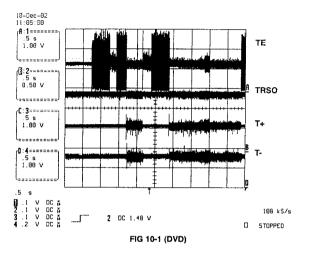


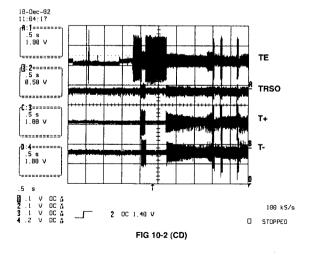


#### 9) SPINDLE CONTROL WAVEFORM (NO DISC CONDITION)



#### 10. TRACKING CONTROL RELATED SIGNAL(System checking)





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#### 11. MT1389D AUDIO OPTICAL AND COAXIAL OUTPUT (SPDIF)

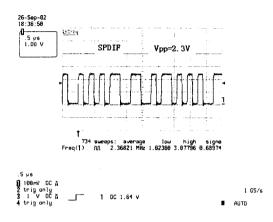
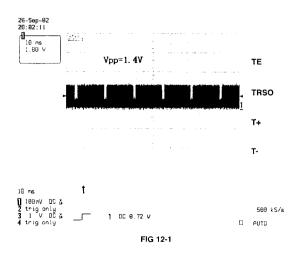


FIG 11-1

#### 12. MT1389D VIDEO OUTPUT WAVEFORM 1) 100%



3-19

#### 2) COMPOSITE VIDEO SIGNAL

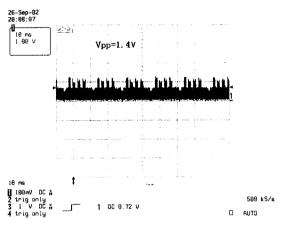
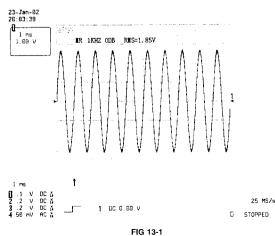


FIG 13-2

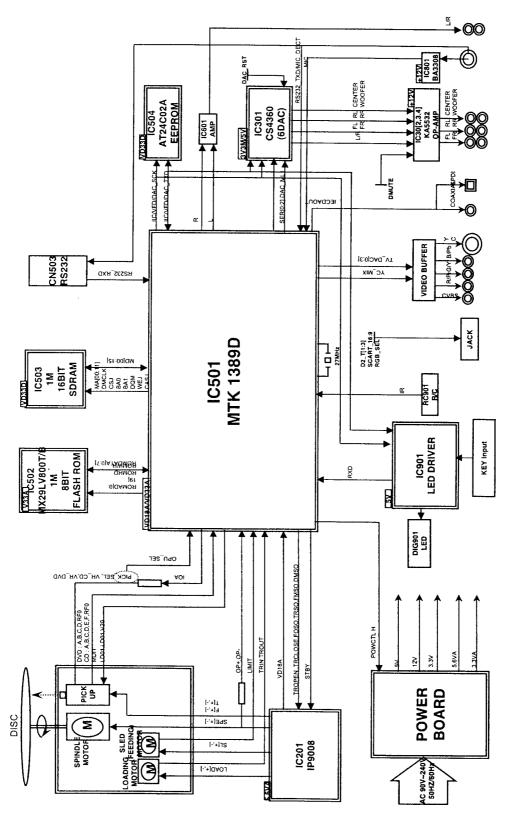
#### 13. AUDIO OUTPUT FROM AUDIO DAC



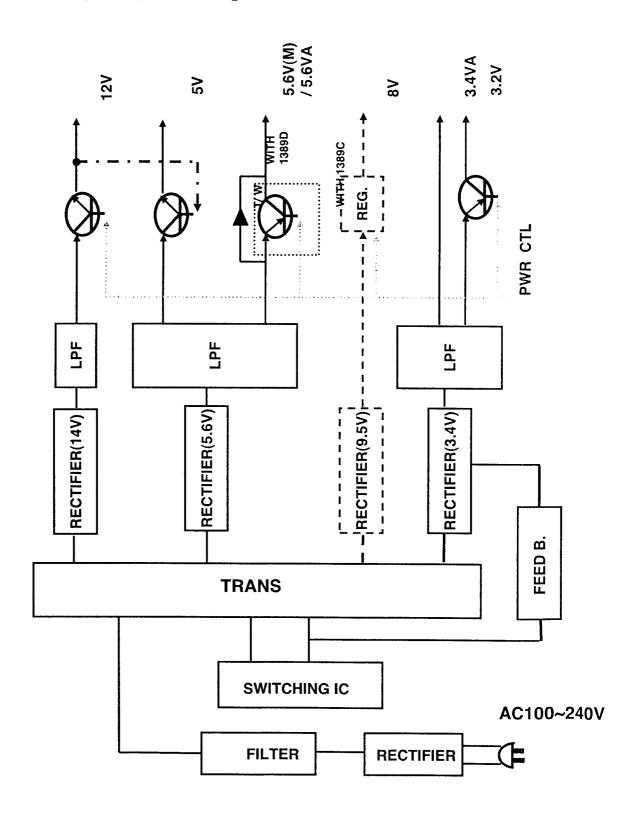
3-20

## **BLOCK DIAGRAMS**

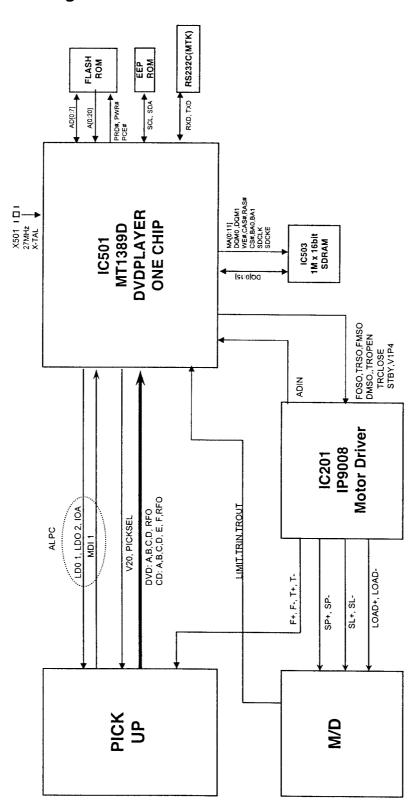
## 1. Overall Block Diagram



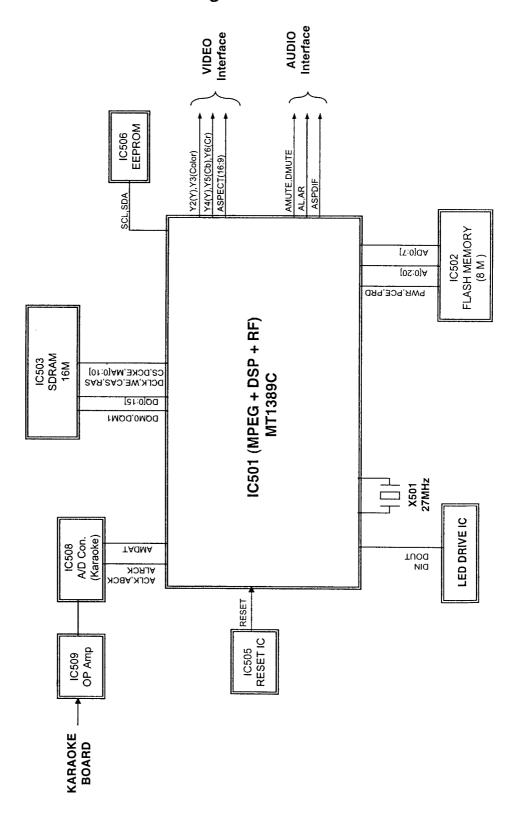
## 2. Power(SMPS) Block Diagram



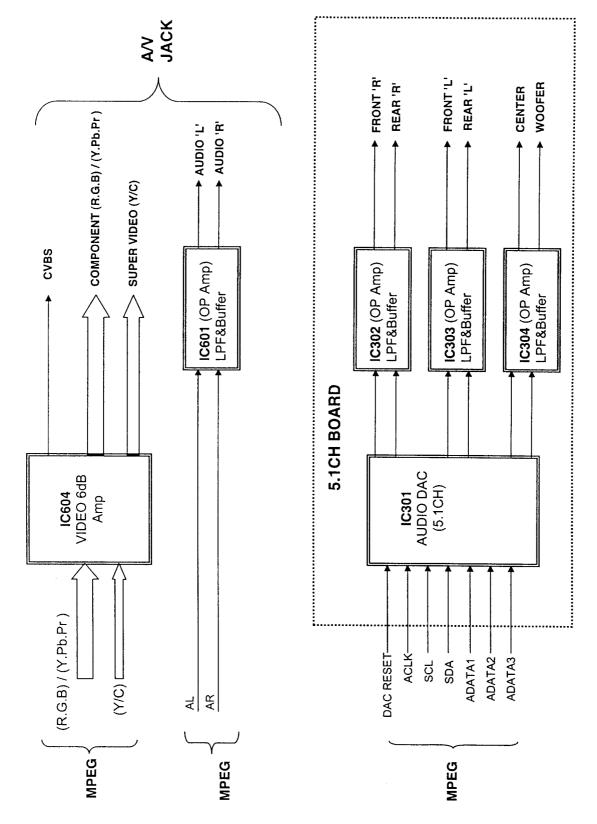
## 3. SERVO Block Diagram



## 4. MPEG & MEMORY Block Diagram



## 5. VIDEO & AUDIO Block Diagram



## **CIRCUIT DIAGRAMS**

1. POWER(SMPS) CIRCUIT DIAGRAM

#### IMPORTANT SAFETY NOTICE

WHEN SERVICING THIS CHASSIS, UNDER NO CIRCUMSTANCES SHOULD THE ORIGINAL DESIGN BE MODIFIED OR ALTERED WITHOUT PERMISSION FROM THE LG ELECTRONICS CORPORATION. ALL COMPONENTS SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIRCUMSTANCE IN THE SET IS NOT DELAYED UNTIL THE NEW SERVICE TYPES IN POINTED. TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIR-

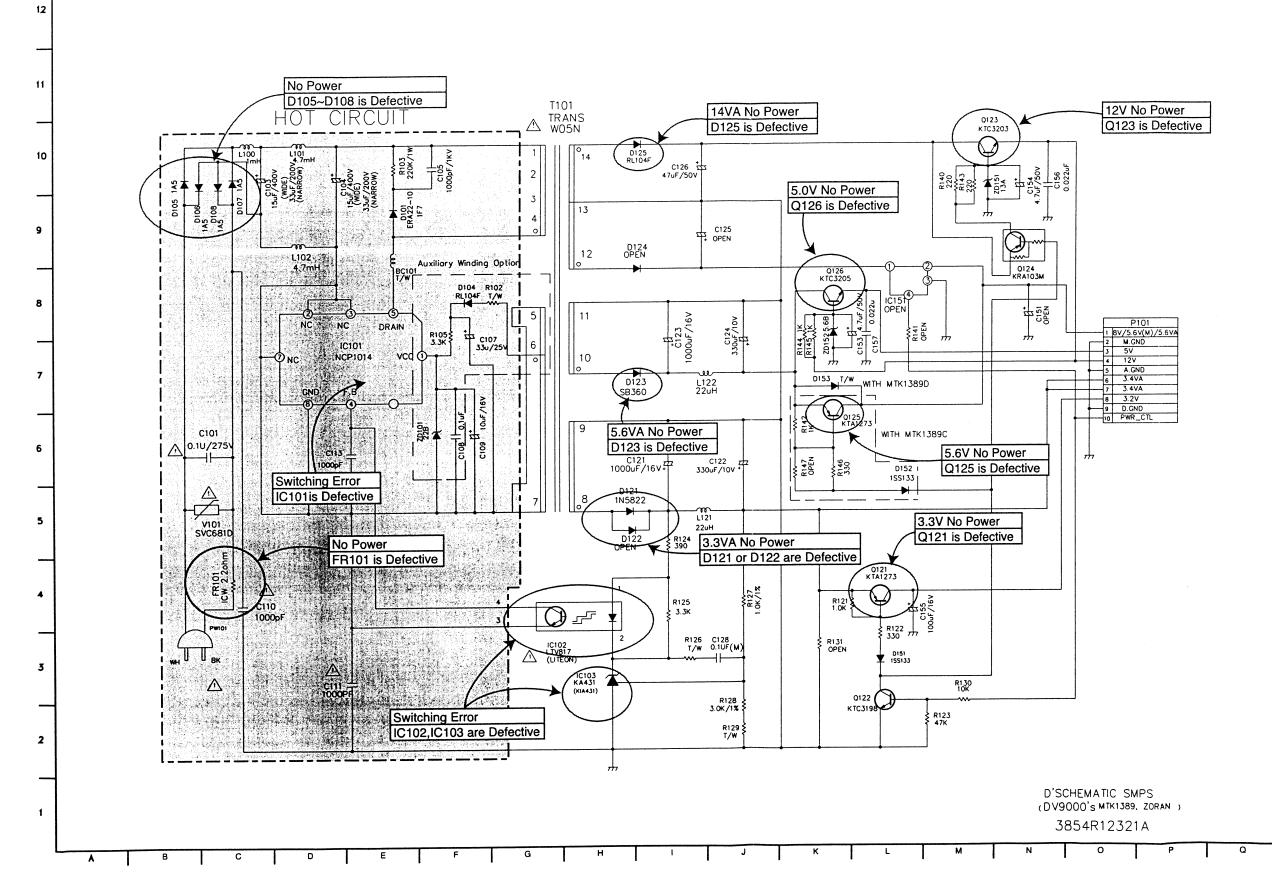
CUIT. SPECIAL COMPONENTS ARE SHADED ON THE NOTE:

SCHEMATIC FOR EASY IDENTIFICATION.

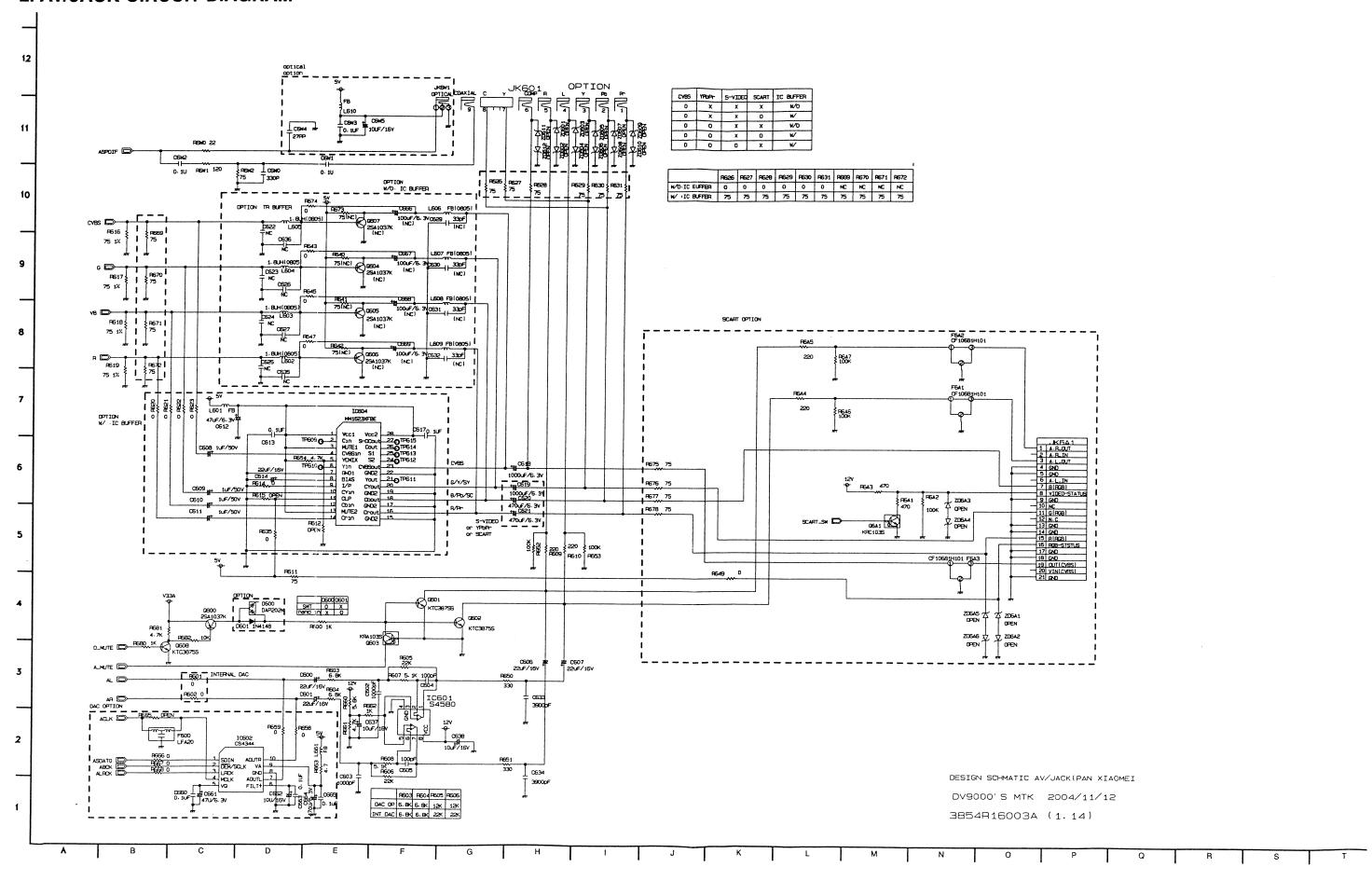
THIS CIRCUIT DIAGRAM MAY OCCASIONALLY DIF-

- 1. Shaded(■) parts are critical for safety. Replace only with specified part number.

  2. Voltages are DC-measured with a digital voltmete

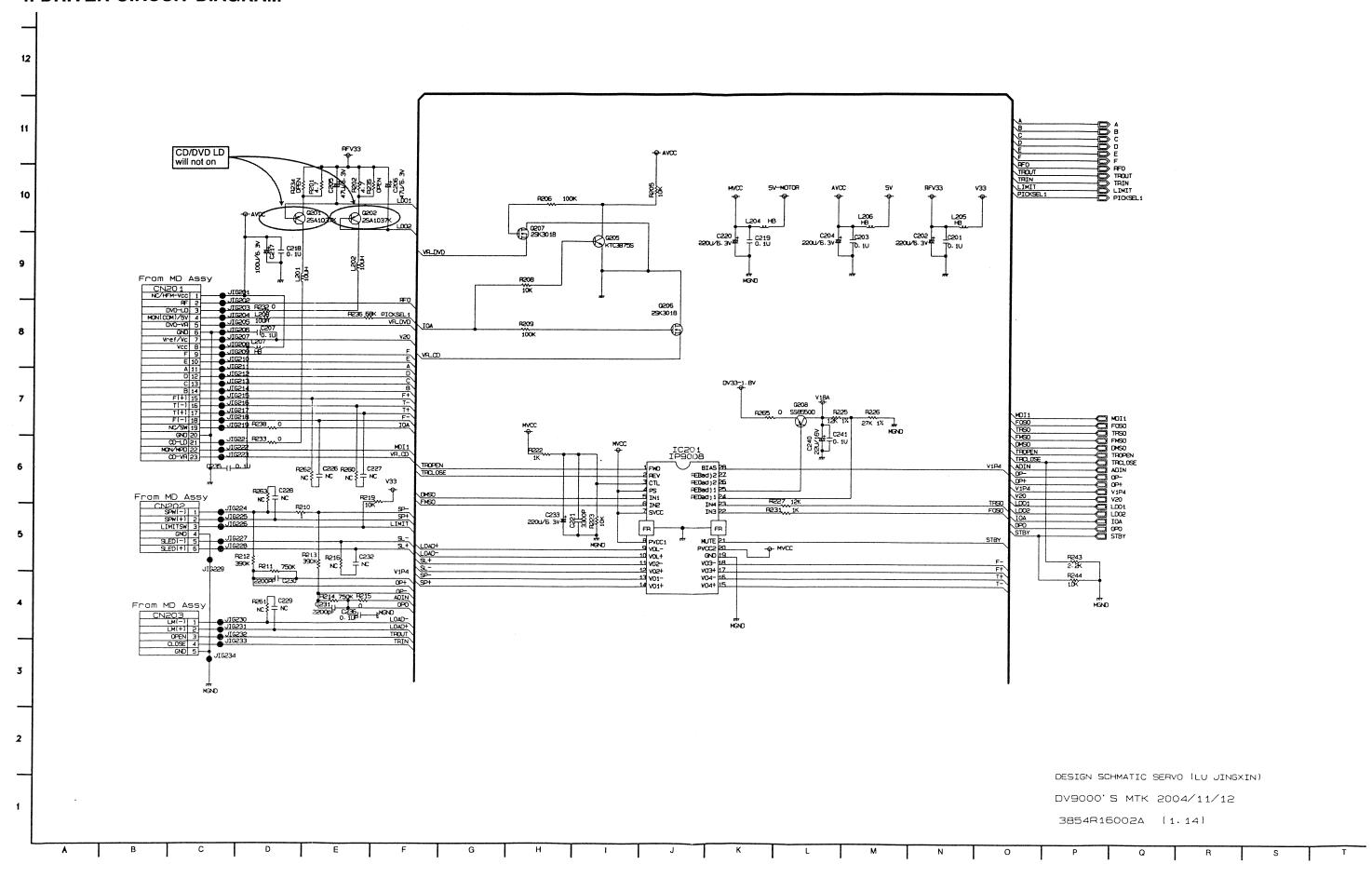


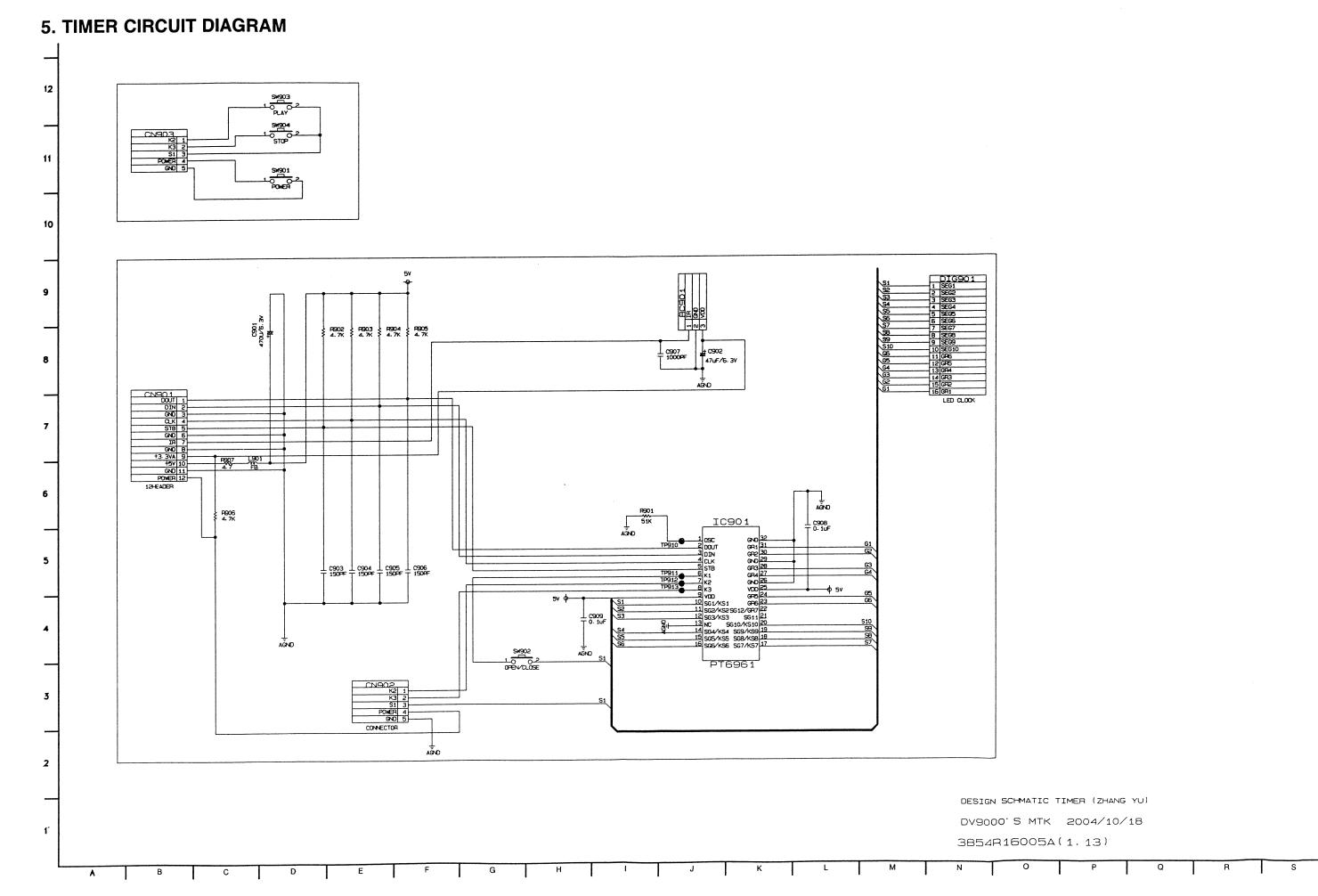
## 2. AV/JACK CIRCUIT DIAGRAM



3. SYSTEM CIRCUIT DIAGRAM 12 11 10 To Timer-CN901 9 5V V33A IC501 8 MT1389D 7 6 EON/4Mb1t 2 IC503 1X16Mbit DV9000'S MTK 2004/11/12 3854R16001A(1.14)

## 4. DRIVER CIRCUIT DIAGRAM





## · CIRCUIT VOLTAGE CHART

MODE PIN NO	STOP	PLAY
IC	201(90	008)
1	0	0
2	0	0
3	5.01	5.04
4	5.52	5.55
5	1.8	1.76
	1.42	1.42
-6		+
7	5.52	5.55
8	5.52	5.54
9	0	0
10	0	0
11	2.65	2.69
12	2.61	2.63
13	1.2	1.46
14	4.08	3.85
15	2.66	2.69
16	2.66	2.68
17	2.68	2.71
18	2.63	2.66
19	0	0
20	5.53	5.56
21	3.29	3.29
22	<del> </del>	<del> </del>
	1.43	1.43
23	1.43	1.43
24	1.43	1.43
25	1.42	1.43
26	1.43	1.43
27	1.43	1.43
28	1.43	1.43
A44 ()	IC501	11400
1	0	0
2	1.73	0
3	1.73	1.73
4	1.73	1.73
5	1.73	1.73
6	1.75	1.73
7	2.15	1.74
8	2.2	2.21
9	2.18	2.18
		0
10	2.16	
11	2.14	2.14
12	1.74	
13	1.04	1
14	1.03	1
15	0.12	1
16	0.13	0
17	0.12	1
18	0.13	2.05
19	2.05	0
20	2.05	0
21	2.05	0
22	2.38	0
23	3.29	0
24	3.3	3.3
25	0.21	

AGI	AGE CHART			
MODE PIN NO	STOP	PLAY	7	
26	2.34	0	7 1	
27	0	0	7 1	
28	2.8	2.8	7	
29	2	0	1 1	
30	1.4	0	1 1	
31	1.52	0	1 1	
32	1.38	0	1 1	
33	1.38	0	1 1	
34	2.62	0	1 1	
35	2.62	2.73	1 1	
36	2.25	0	1	
37	2.2	2.11	1 1	
38	1.37	1.36	1 1	
38	0	0	1 1	
40	1.4	0	1 t	
41	1.43	0	1 t	
42	1.4	141	1 t	
43	0	0	1 t	
44	0	0	1	
45	0	0	1 F	
46	3.3	3.3	1	
47	2.64	0	1	
48	3.32	0	1	
49	0.01	0	┨╴┞	
50	3.3	0	1 ト	
51	0	0	1 ト	
52	1.76	1.8	┪┢	
53	2.13	0	1	
54	2.14	2.12	l F	
55	2.13	1.74	1	
56	1.81	1.34	1	
57	2.12	0	1	
58	1.83	1.52	l H	
59	0	1.63	1	
60	0	2.99	l	
61	0	0	l	
62	0	0	l	
63	0	2.05	l H	
64	0	0	l	
65	3.3	3.3	l H	
66	3.3	3.32	l	
67	1.29	0	l F	
68	2.36	0.32	<b> </b> -	
69	0	0.37	<u> </u> -	
70	0.56	0.46		
71	0	3.2	l	
72	1.27	1.42	-	
73	3.3	3.3	-	
74	2.23	1.93	 	
75	1.39	0	, F	
76	0	0	, F	
77	0	0	$\vdash$	
78	2.06	0	-	
70	2.06	-	-	

MODE PIN NO.	STOP	PLAY	MODE PIN NO.	STOP	PLA
81	1.2	1.07	136	3.3	3.3
82	0	0.82	137	2.63	1.65
83	1.17	0.77	138	3.27	3.1
84	0.64	0.54	139	3	2.63
85	0	0	140	3.2	3.1
86	1.44	0.53	141	3.3	3.3
87	1.65	1.77	142	2.9	2.38
88	1.4	1.53	143	1.59	1.7
89	0	0	144	0	0
90	1.21	1.2	145	1.38	1.55
91	1.02	1.03	146	<del> </del>	<del> </del>
92	0	<del> </del>	<del></del>	0.07	0
93		0	147	0.31	0.78
	2.06	1.93	148	0	0
94	0	0	149	1.51	1.95
95	3	2.74	150	1.49	1.93
96	3.28	3.25	151	1.49	1.62
97	1.8	1.8	152	1.8	1.75
98	3	2.7	153	0	0
99	3	2.7	154	0	0
100	2.97	2.67	155	3.3	3.3
101	0	2.68	156	1.72	1.72
102	3.33	3.32	157	0.92	2.29
103	3.33	3.32	158	0	0
104	3	2.7	159	0	0
105	5.18	5.18	160	0	0
106	3.32	3.31	161	0	0
107	2.76	2.75	162	1.56	1.4
108	3.3	3.3	163	0	0
109	0	0	164	2.36	1.54
110	5.2	5.2	165	2.32	1.61
111	2.67	2.92	166	1.49	1.61
112	3.14	3.18	167	3.3	3.3
113	2.28	1.6	168	3.25	3.24
114	0	0	169	3.3	3.27
115	1.06	0.85	170	0	0
116	0	0	171	0	0
117	1.04	1.09	172	0	
18	1.28	0.94	173	1.8	1.8
119	0	0	174	3.33	3.3
20	1.18	1.65	175	0	
21	1.36	1.7	<del></del>		0 72
22	1.8	1.75	176	2.73	2.73
	1.26		177	0	0
23		1.51	178	3.32	3.32
24	1.23	1.4	179	2.75	
25	1.28	1.16	180	0	0
26	0	0.86	181	0	0
27	3.3	3.3	182	3.3	3.3
28	2.35	1.28	183	0	0
29	1.8	1.05	184	0	0
30	0	1.1	185	0	0
31	1.39	1.25	186	0	0
32	1.37	1.27	187	0	0
33	1.31	1.3	188	0	0
34	0	0	189	3.3	3.3
35	1.33	1.37	190	1.24	1.24

MODE PIN NO	SIDE	PLAY	7
136	3.3	3.3	1
137	2.63	1.65	1
138	3.27	3.1	1
139	3	2.63	1
140	3.2	3.1	1
141	3.3	3.3	1
142	2.9	2.38	1
143	1.59	1.7	1
144	0	0	1
145	1.38	1.55	1
146	0.07	0	1
147	0.31	0.78	1
148	0	0	1 1
149	1.51	1.95	1
150	1.49	1.93	1 1
151	1.49	1.62	1 1
152	1.8	1.75	1 1
153	0	0	1 1
154	0	0	1 1
155	3.3	3.3	1 1
156	1.72	1.72	1 1
157	0.92	2.29	1 1
158	0	0	l f
159	0	0	1 1
160	0	0	1 1
161	0	0	l t
162	1.56	1.4	l t
163	0	0	1 1
164	2.36	1.54	<b>†</b> †
165	2.32	1.61	l t
166	1.49	1.61	lŀ
167	3.3	3.3	lt
168	3.25	3.24	lt
169	3.3	3.27	
170	0	0	lt
171	0	0	
172	0	0	
173	1.8	1.8	F
174	3.33	3.3	
175	0	0	
176	2.73	2.73	
177	0	0	
178	3.32	3.32	
179	2.75	0	l
180	0	0	<b> </b>
181	0	0	<b> </b>
182	3.3	3.3	H
183	0	0	H
184	0	0	H
185	0	0	F
186	0	0	F
187	0	0	F
188	0	0	  -
			<u> </u>

MODE PIN NO	STOP	PLAY
191	1.25	1.24
192	2.26	2.25
193	0	0
194	0.46	0.47
195	3.3	3.3
196	0.7	0.7
197	0	0
198	3.28	3.29
199	3.3	3.3
200	0.42	0.43
201	0.42	0.40
202	0.57	0.38
203	0.57	0.42
204	3.3	3.3
205	0.25	2.62
206		-
	2.72	2.64
207	2.71	2.63
208	0	0
209	0	0
210	0	0
211	0.1	3.3
212	3.3	3.3
212	1.31	1.66
213	1.01	
214	1.67	1.64
214 215		
214 215 216	1.67 1.58 0	1.64 1.57 0
214 215 216 IC502	1.67 1.58 0 (MX29L)	1.64 1.57 0 /800-70)
214 215 216 <b>IC502</b>	1.67 1.58 0	1.64 1.57 0 <b>/800-70)</b> 3.17
214 215 216 <b>IC502</b> 1	1.67 1.58 0 (MX29L) 3.2 0	1.64 1.57 0 <b>/800-70)</b> 3.17 3.17
214 215 216 <b>IC502</b>	1.67 1.58 0 (MX29L\ 3.2	1.64 1.57 0 <b>/800-70)</b> 3.17
214 215 216 <b>IC502</b> 1	1.67 1.58 0 (MX29L) 3.2 0	1.64 1.57 0 <b>/800-70)</b> 3.17 3.17
214 215 216 IC502 1 . 2	1.67 1.58 0 (MX29L) 3.2 0 3.2	1.64 1.57 0 /800-70) 3.17 3.17
214 215 216 IC502 1 . 2 . 3 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2	1.64 1.57 0 /800-70) 3.17 3.17 3.17 0.97
214 215 216 <b>IC502</b> 1 . 2 3 4 5	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2	1.64 1.57 0 /800-70) 3.17 3.17 3.17 0.97 3.16
214 215 216 IC502 1	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 3.2	1.64 1.57 0 /800-70) 3.17 3.17 0.97 3.16 3.16
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 3.2	1.64 1.57 0 /800-70) 3.17 3.17 3.17 0.97 3.16 3.16 3.16
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 3.2 0	1.64 1.57 0 /800-70) 3.17 3.17 3.17 0.97 3.16 3.16 3.16
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 0 0	1.64 1.57 0 3.17 3.17 3.17 0.97 3.16 3.16 3.16 3.16
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 3.2 0 0	1.64 1.57 0 <b>/800-70)</b> 3.17 3.17 0.97 3.16 3.16 3.16 3.16 1.02
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11	1.67 1.58 0 (MX29LV 3.2 0 3.2 3.2 3.2 3.2 0 0 0 0 0 0	1.64 1.57 0 /800-70) 3.17 3.17 3.16 3.16 3.16 3.16 1.02 3.16
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 .	1.67 1.58 0 (MX29LV 3.2 0 3.2 3.2 3.2 3.2 0 0 0 0 0 0 3.2 5.25	1.64 1.57 0 /800-70) 3.17 3.17 3.17 0.97 3.16 3.16 3.16 1.02 3.16 5.25
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 3.2 0 0 0 0 0 3.2 5.25 0	1.64 1.57 0 /800-70) 3.17 3.17 3.17 0.97 3.16 3.16 3.16 3.16 3.16 3.16 5.25 2.73
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 3.2 0 0 0 0 3.2 5.25 0 1.54	1.64 1.57 0 /800-70) 3.17 3.17 3.17 0.97 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.19
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 . 14 . 15 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 0 0 0 0 0 0 3.2 5.25 0 1.54 1.33	1.64 1.57 0 /800-70) 3.17 3.17 3.17 0.97 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.17 3.16 3.17 3.17 3.17 3.17 3.18 3.19
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 . 14 . 15 . 16 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 0 0 0 0 0 3.2 5.25 0 1.54 1.33 3.2	1.64 1.57 0 /800-70) 3.17 3.17 3.17 0.97 3.16 3.16 3.16 3.16 3.16 1.02 3.16 5.25 2.73 3.19 1.71 2.43
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 . 14 . 15 . 16 . 17 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 0 0 0 0 1.54 1.33 3.2 3.2	1.64 1.57 0 7800-70) 3.17 3.17 3.17 0.97 3.16 3.16 3.16 3.16 3.16 1.02 3.16 5.25 2.73 3.19 1.71 2.43 3.17
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 . 14 . 15 . 16 . 17 . 18 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 0 0 0 0 0 1.54 1.33 3.2 3.2 3.2 3.2	1.64 1.57 0 7800-70) 3.17 3.17 3.17 0.97 3.16 3.16 3.16 1.02 3.16 5.25 2.73 3.19 1.71 2.43 3.17 3.16
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 . 14 . 15 . 16 . 17 . 18 . 19 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 0 0 0 0 0 1.54 1.33 3.2 3.2 3.2 1.7	1.64 1.57 0 /800-70) 3.17 3.17 3.17 0.97 3.16 3.16 3.16 1.02 3.16 5.25 2.73 3.19 1.71 2.43 3.17 3.16 3.17
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 . 14 . 15 . 16 . 17 . 18 . 19 . 19 . 10 . 11 . 12 . 13 . 14 . 15 . 16 . 17 . 18 . 18 . 19 . 19 . 10 . 11 . 12 . 13 . 14 . 15 . 16 . 17 . 18 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 0 0 0 0 0 1.54 1.33 3.2 3.2 3.2 1.7 2.2	1.64 1.57 0 7800-70) 3.17 3.17 3.17 0.97 3.16 3.16 3.16 1.02 3.16 5.25 2.73 3.19 1.71 2.43 3.17 3.16 3.17
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 . 14 . 15 . 16 . 17 . 18 . 19 . 20 . 21 . 21 . 22 . 23 . 24 . 25 . 26 . 27 . 28 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 0 0 0 0 0 0 1.54 1.33 3.2 3.2 3.2 1.7 2.2 0	1.64 1.57 0 /800-70) 3.17 3.17 3.17 3.16 3.16 3.16 3.16 1.02 3.16 5.25 2.73 3.19 1.71 2.43 3.17 3.17 3.17
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 . 14 . 15 . 16 . 17 . 18 . 19 . 20 . 21 . 22 . 21 . 22 . 21 . 22 . 23 . 24 . 26 . 27 . 28 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 0 0 0 0 0 0 3.2 5.25 0 1.54 1.33 3.2 3.2 3.2 1.7 2.2 0 0	1.64 1.57 0 /800-70) 3.17 3.17 3.17 3.16 3.16 3.16 3.16 1.02 3.16 5.25 2.73 3.19 1.71 2.43 3.17 3.17 3.17 3.17
214 215 216 IC502 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 . 14 . 15 . 16 . 17 . 18 . 19 . 20 . 21 . 22 . 23 . 24 . 25 . 26 . 27 . 28 . 28 . 28 . 29 . 20 . 21 . 22 . 23 . 24 . 26 . 27 . 28 .	1.67 1.58 0 (MX29L) 3.2 0 3.2 3.2 3.2 0 0 0 0 3.2 5.25 0 1.54 1.33 3.2 3.2 1.7 2.2 0 0 0	1.64 1.57 0 /800-70) 3.17 3.17 3.17 3.16 3.16 3.16 3.16 1.02 3.16 5.25 2.73 3.19 1.71 2.43 3.17 3.17 3.17 3.17

MODE PIN NO.	STOP	PLAY
29	3.2	3.17
30	0	0
32	0	0
33	0	0
34	0	0
35	3.2	0
36	0.2	0
37	3.2	3.23
38	3.26	0
39	3.2	3.17
40	0	0
41	3.2	3.17
42	0	0
43	0	3.17
44	<del> </del>	0
	0	<del> </del>
45	0	0
46	0	0
47	0	0
48	3.2	3.17
		16164A)
1	3.25	3.23
2	2.85	2.86
3	3.25	3.22
4	2.87	2.87
5	2.85	2.5
6	0	0
7	2.81	2.1
8	2.9	2.04
9	3.25	3.22
10	2.85	2.1
11	2.87	2.91
12	1.9	0
13	2.8	
14	3.25	3.22
15	0	0
16	3.18	3.1
17	3.07	2.58
18	3.14	0.61
19	2.95	2.97
20	2.9	2.96
21	2.6	0.32
22	2.81	2.83
23	0.05	0.06
24	0.16	0.18
25	0.16	0.18
26	0.16	0.17
27		
	3.26 0	3.24
28		0.59
29	0.16	0.17
30	0.15	0.53
31	0.16	0.53
32	0.12	0.5
33	0.05	0.16
34	0.05	0.17
35	0.04	0.5

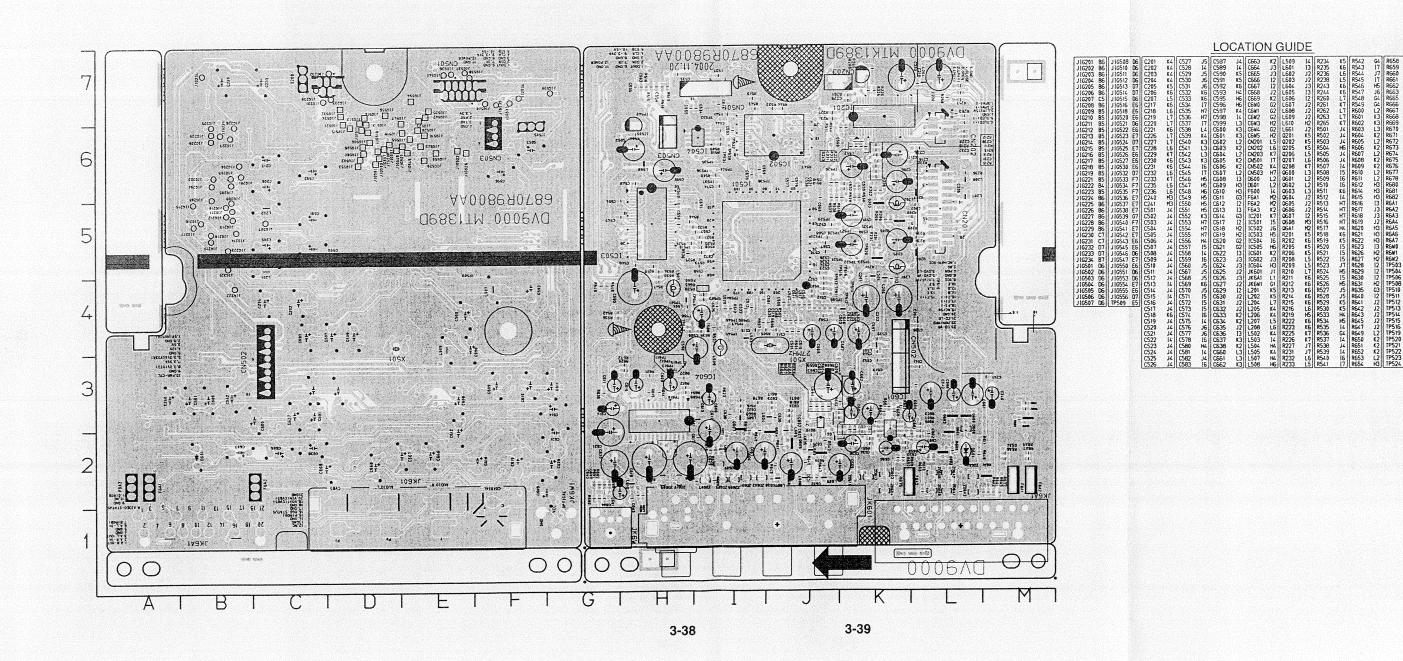
MODE PIN NO.	STOP	PLAY
36	2.85	0.08
37	3.26	3.236
38	1.79	1.78
39	0	0
40	2.7	0.1
41	2.7	0
42	2.9	2
43	3.26	3.23
44	2.92	1.95
45	2.92	2.01
46	0	0
47	2.92	2.03
48	2.94	2.17
49	3.26	3.23
50	2.91	2
51	2.94	2
52	0	0
53	2.9	1.85
54	0	0
ter relie	IC601	7754 A 34
1	0	1.23
2	1.65	1.64
3	1.65	1.65
4	1.64	1.63
5	2.37	2.382
6	4.7	4.69
7	2.4	2.39
8	0	0
IC6	04 (MM	1623)
1	5.17	5.16
2	2.52	2.47
3	5.17	5.16
4	1.36	1.27
5	0	0
6	1.68	1.55
7	0	0
8	2.52	2.51
9	0	0
10	1.68	1.53
11	0	0
12	2.49	2.47
13	5.17	5.16
14	2.5	2.47
15	0	0
16	2.53	2.52
17	0	0
18	2.51	2.51
19	0	0
20	2.18	2
21	2.16	2.05
22	0	0 1
22	2.16	1.96
22 23		

MODE PIN NO	STOP	PLAY	
27	0.53	0.8	
28	5.17	5.16	
20		] 3.10   } ]	
1	2.16	2.15	
2	4.83	4.8	
3	4.83	4.8	
4	4.83	4.81	
5	3.84	4.2	
6	0	0.01	
7	0	0.01	
8	0	0.01	
9	4.84	4.8	
10	2.3	4.75	
11	1.81	2.7	
12	1.96	2.39	
13	0	0	
14	2.1	2.56	
15	2.32	2.13	
16	2.35	2.16	
17	2.1	1.96	
18	0.9	0.93	
19	1.58	1.58	
20	1.25	2.21	
21	0.94	0.92	
22	0.95	0.92	
23	1.5	1.62	
24	1.59	1.79	
25	4.84	4.82	
26	0	0	
27	1.44	1.6	
28	2.04	1.76	
29	0	0	
30	1.36	1.54	
31	1.32	1.5	
32	0	0	
	Q201		
Emitter		0	
Collector	0	5.09	
Base	0.68	0	
100	Q202		
Emitter	0	0	
Collector	0	0	
Base	0	5.04	
- 1			
Emitter	0	0	
Collector	0	0.19	
Base	5.04	0	
Emitter	5.14	4.34	
Collector	0	2.42	
Base	5.08	3.64	
Q205			
Emitter	5.14	5.1	
Collector	0.5	0	

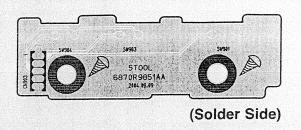
MODE	STOP	PLAY			
PIN NO.					
Emitter	Q501	·			
Emitter Collector	0	0			
Base	0.83	0.83			
		0.83			
Emitter	5.17	1 1			
Collector	0	0.13			
Base	5.11	<del> </del>			
Emitter	0 0	0			
Collector	0	0			
Base	0.75	0			
		) 3:74* : .			
Emitter	0	o			
Collector	0	0			
Base	0.75	0.16			
		nagyayay			
Emitter	0	0			
Collector	0	0			
Base	0.74	0.74			
1					

## PRINTED CIRCUIT DIAGRAMS

1. MAIN P.C.BOARD

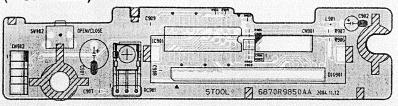


## 2. KEY P.C.BOARD



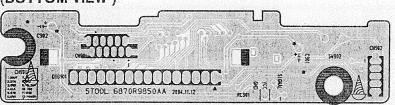
## 3. TIMER P.C.BOARD

## (TOP VIEW)



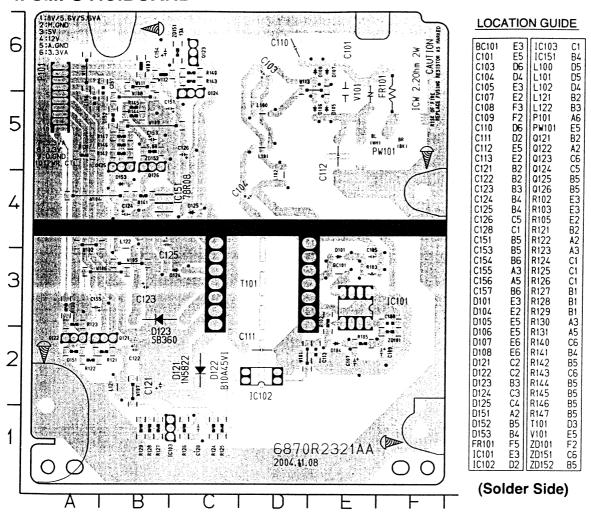
(Solder Side)

## (BOTTOM VIEW)



(Solder Side)

#### 4. SMPS P.C.BOARD



	1 3300R-0547A	2002-11-08	PLATE	V	SH
	2 5016H-1016B	2002-11-08	MAGNET	V	SH
	3 4860R-0021A	2002-11-08	CLAMP	V	SH
	10 6850R-JW24Y	2004-09-20	CABLE,FLAT	R	SH
	12 5040R-0083A	2004-09-20	RUBBER	R	SH
012A	5040R-0110A	2004-09-20	RUBBER	R	SH
	13 4400R-0010A	2004-09-20	BELT	R	SH
	14 4470R-0154A	2004-09-20	GEAR	R	SH
	15 4681R-A015A	2004-09-20	MOTOR ASSEMBLY	R	SH
015A	4680R-E008A	2004-09-20	MOTOR(MECH)	V	SH
015B	4560R-0008A	2004-09-20	PULLEY	R	SH
	16 6871R-9290A	2004-09-20	PWB(PCB) ASSEMBLY, TO	R	SH
	17 4470R-0176A	2004-09-20	GEAR	R	SH
	18 4974R-0066A	2004-09-20	GUIDE	R	SH
	19 3210R-M007A	2004-09-20	FRAME	R	SH
	20 3040R-M062A	2004-09-20	BASE	R	SH
	21 4681R-B009A	2004-11-09	MOTOR ASSEMBLY	R	SH
	24 4470R-0179A	2004-09-20	GEAR	R	SH
	25 4470R-0178A	2004-09-20	GEAR	R	SH
	26 3390R-0029A	2004-09-20	TRAY	R	SH
	30 4470R-0180A	2004-09-20	GEAR	R	SH
	35 6871R-9291A	2004-09-20	PWB(PCB) ASSEMBLY,TO	R	
035A	6850R-GF10Z	2004-09-20	CABLE, FLAT		SH
0334		2004-09-20	SHAFT	R	SH
	36 4370R-0136A			R	SH
	250 3110R-D024A	2004-11-29 2004-11-29	CASE	R	SH
	260 3140R-D021A		CHASSIS	V	SH
	261 5040R-0069Q	2004-11-29	RUBBER	R	SH
	280 3721R-F882A	2004-11-29	PANEL ASSEMBLY, FRONT	V	SH
	283 3581R-T130A	2004-11-29	DOOR ASSEMBLY	R	SH
	300 6410RCHX03A	2004-11-29	POWER CORD	R	SH
	320 3720R-D121G	2004-11-29	PANEL, VIDEO	R	SH
	430 1SZZR-0064B	2004-09-20	SCREW, DRAWING	R	SH
	431 1SZZR-0062A	2004-09-20	SCREW, DRAWING	R	SH
	432 1SZZR-0072A	2004-09-20	SCREW,DRAWING	R	SH
	435 1SZZR-0011A	2004-09-20	SCREW, DRAWING	R	SH
	435 1SZZR-0011A	2004-09-20	SCREW, DRAWING	R	SH
	438 1SZZR-0075A	2004-09-20	SCREW, DRAWING	R	SH
	439 1SZZR-0075A	2004-09-20	SCREW, DRAWING	R	SH
	440 1SZZH-1007B	2004-09-20	SCREW, DRAWING	R	SH
	452 353-051A	2004-11-29	SCREW, DRAWING	R	SH
	463 353-051G	2004-11-29	SCREW, DRAWING	R	SH
	465 353-046K	2004-11-29	SCREW, DRAWING	R	SH
	467 353-046N	2004-11-29	SCREW, DRAWING	R	SH
	801 3835RD0045L	2005-01-05	INSTRUCTION ASSEMBLY	R	SH
	802 3890RCG006B	2004-11-29	BOX, SHIPPING	R	SH
	803 3920R-E141A	2004-11-29	PACKING	R	SH
	804 3880R-E002A	2004-11-29	BAG, VINYL	V	SH
	808 6910A90004A	2004-11-29	BATTERY, ALKALINE	R	SH
	808 841-0021	2004-11-29	BATTERY,MN	R	SH
	900 6711R1P089A	2004-12-27	REMOTE CONTROLLER AS	R	SH
A00	6721RHD040A	2004-11-29	DECK ASSEMBLY AUDIO	v	SH
A01	4861R-0016B	2004-09-20	CLAMP ASSEMBLY	R	SH
A02	3041R-D023A	2004-09-20	BASE ASSEMBLY	R	SH
A03	3041R-M066A	2004-09-20	BASE ASSEMBLY	R	
A42	6871R-9851A	2004-11-29	PWB(PCB) ASSEMBLY,TO	R	SH
A43	3501RF0520A	2004-11-29	BOARD ASSEMBLY	R	SH
A44	3141R-D057G	2004-11-29	CHASSIS ASSEMBLY	R	SH
A46	6885R-1037S	2004-11-29	SUB PWB(PCB) ASSEMBL	R	SH
A47	6871R-2327B	2004-11-29	PWB(PCB) ASSEMBLY,TO		SH
A49	6871R-9850A	2004-11-29	PWB(PCB) ASSEMBLY,TO	R	SH
C101	624-088J	2004-10-21	CAPACITOR, DRAWING	R	SH
C101	624-088L	2004-10-21		R	SH
C101	624-088S	2004-10-21	CAPACITOR, DRAWING	R	SH
C103	0CZZR00011A	2004-10-21	CAPACITOR DRAWING	R	SH
C104	0CZZR00011A	2004-11-05	CAPACITOR DRAWING	R	SH
C105	624-087J	2004-11-05	CAPACITOR, DRAWING	R	SH
C103	0CE1064F638	2004-10-21	CAPACITOR, FIXED CERA CAPACITOR, FIXED ELEC	R	SH
C110	0CG1020U630	2004-10-21	·	R	SH
C111	0CG10200630	2004-10-21	CAPACITOR, FIXED CERA	R	SH
C113	0CG10200630 0CN1020K518	2004-10-21	CAPACITOR, FIXED CERA CAPACITOR TUBULA (HIG	R	SH
C121			•	R	SH
C122	0CE108BF630 0CE3376D638	2004-10-21 2004-10-21	CAPACITOR, FIXED ELEC	R	SH
C123			CAPACITOR, FIXED ELEC	R	SH
C124	0CE108BF630	2004-10-21	CAPACITOR, FIXED ELEC	R	SH
C126	0CE3376D638	2004-10-21	CAPACITOR, FIXED ELEC	R	SH
C128	624-085D	2004-10-21	CAPACITOR, FIXED ELEC	R	SH
C153	0CQ1042K409	2004-10-21	CAPACITOR, FIXED FILM	R	SH
C153	0CE4754K638	2004-10-21	CAPACITOR, FIXED ELEC	R	SH
C154	0CE4754K638	2004-10-21	CAPACITOR, FIXED ELEC	R	SH
C156	0CE1074F638	2004-10-21	CAPACITOR, AL. ELECTRO	R	SH
C156	0CN223AK948	2004-10-21	CAPACITOR, TUBULAR(HI	R	SH
C157	0CN223AK948	2004-10-21	CAPACITOR, TUBULAR(HI	R	SH
	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C202	0CE2274C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C203	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C204	0CE2274C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C205	0CE4764C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C206	0CE4764C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C207	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C217	0CE1074C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C218	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C219	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C220	0CE2274C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C221	0CH1332K562	2004-10-12	CAPACITOR, FIXED CERA	R	SH
					<b>3.</b> ,

C230	0CH1222K562	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C231	0CH1222K562	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C233	0CE2274C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C235	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C236	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C240	0CE2264F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C241	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C501	0CH4391K412	2004-12-07	CAPACITOR, FIXED CERA	R	SH
C502	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C503	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C504	0CH1103K562	2004-10-14	CAPACITOR, FIXED CERA	R	SH
	0CH1103K942			R	SH
C505		2004-10-12	CAPACITOR, FIXED CERA		
C506	0CH1222K562	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C507	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C508	0CH4200K412	200 <del>4</del> -10-12	CAPACITOR, FIXED CERA	R	SH
C509	0CE1064F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C511	0CH1102K562	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C512	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C513	0CH1682K562	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C514	0CH4220K412	2004-10-12	CAPACITOR, FIXED CERA	R	SH
				R	
C515	0CH4220K412	2004-10-12	CAPACITOR, FIXED CERA		SH
C516	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C517	0CH1333K562	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C518	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C519	0CH1473K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C520	0CH1473K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C521	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C522	0CH1152K562	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C523	0CH1105D942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
		2004-10-12	•	R	SH
C524	0CH1105D942		CAPACITOR, FIXED CERA		
C525	0CH1105D942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C526	0CH1105D942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C527	0CH1105D942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C528	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C529	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C530	0CH4361K412	2004-12-07	CAPACITOR, FIXED CERA	R	SH
		2004-11-16	CAPACITOR, FIXED CERA	R	SH
C531	0CH4181K412				
C532	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C533	0CH1153K562	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C534	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C535	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C536	0CH4221K412	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C537	0CH4221K412	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C538	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C539					
C540	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C541	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C542	0CE2274C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C543	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C544	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C545	0CH4221K412	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C546	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C547	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C548	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C549	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C550	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C551	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C552	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C556	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C557	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C558	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C559	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C560	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C567	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C568	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C569	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C570	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C571	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C572	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C573	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C574	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
		2004-10-12	CAPACITOR, FIXED CERA	R	SH
C575	0CH1104K942		•		
C576	0CH1104K942	2004-10-12	CAPACITOR FIXED CERA	R	SH
C577	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C578	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C580	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C581	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C582	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C583	0CH1104K942	2004-10-12	CAPACITOR, FIXED CERA	R	SH
C587	0CE1064F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C589	0CE1064F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C599	0CE4764C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C591	0CE4764C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C592	0CE4764C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C593	0CE108CC638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C595	0CE1064F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C596	0CE1074C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C597	0CE1074C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C598	0CE1074C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C600	0CE2264F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
	0CE2264F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C601					
C602	0CH1102K562	2004-11-26	CAPACITOR, FIXED CERA	R	SH
C603	0CH1102K562	2004-11-26	CAPACITOR, FIXED CERA	R	SH
C604	0CH1101K965	2004-11-26	CAPACITOR, FIXED CERA	R	SH
C605	0CH1101K965	2004-11-26	CAPACITOR, FIXED CERA	R	SH
C606	0CE2264F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C607	0CE2264F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH

0000	005.05.44000	2004 12 14	CARACITOR EIVER ELEC		CH
C608	0CE1054K638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C609	0CE1054K638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C610	0CE1054K638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
		2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C611	0CE1054K638				
C612	0CE4764C638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C613	0CH1104K942	2004-11-26	CAPACITOR, FIXED CERA	R	SH
C614	0CE2264F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C617	0CH1104K942	2004-11-26	CAPACITOR, FIXED CERA	R	SH
C618	0CE108CC638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
		2004-12-14		R	
C619	0CE108CC638		CAPACITOR, FIXED ELEC		SH
C620	0CE4775C638	2005-01-07	CAPACITOR, FIXED ELEC	R	SH
C621	0CE4775C638	2005-01-07	CAPACITOR, FIXED ELEC	R	SH
C633	0CH1392K562	2004-11-26	CAPACITOR, FIXED CERA	R	SH
C634	0CH1392K562	2004-11-26	CAPACITOR, FIXED CERA	R	SH
C637	0CE1064F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C638	0CE1064F638	2004-12-14	CAPACITOR, FIXED ELEC	R	SH
C6W0	0CH1331K412	2004-11-26	CAPACITOR, FIXED CERA	R	SH
		2004-11-26	CAPACITOR, FIXED CERA	R	SH
C6W0	0CH4331K412				
C6W1	0CH1104K942	2004-11-26	CAPACITOR, FIXED CERA	R	SH
C6W2	0CH1104K942	2004-11-26	CAPACITOR, FIXED CERA	R	SH
		2004-10-27	CAPACITOR, FIXED ELEC	R	SH
C901	0CE4775C638				
C902	0CE4764C638	2004-10-25	CAPACITOR, FIXED ELEC	R	SH
C903	0CH4151K412	2004-10-25	CAPACITOR, FIXED CERA	R	SH
		2004-10-25	CAPACITOR, FIXED CERA	R	SH
C904	0CH4151K412				
C905	0CH4151K412	2004-10-25	CAPACITOR, FIXED CERA	R	SH
C906	0CH4151K412	2004-10-25	CAPACITOR, FIXED CERA	R	SH
		2004-10-25	CAPACITOR, FIXED CERA	R	SH
C907	0CH1102K512		•		
C908	0CH1104K942	2004-10-25	CAPACITOR, FIXED CERA	R	SH
C909	0CH1104K942	2004-10-25	CAPACITOR, FIXED CERA	R	SH
CN201		2004-10-12	CONNECTOR (CIRC),FFC	R	SH
	6630XE00123		The state of the s		
CN202	6630XE00106	2004-10-12	CONNECTOR (CIRC),FFC	R	SH
CN203	6630R-FB10E	2004-11-26	CONNECTOR (CIRC),FFC	R	SH
			•	R	
CN501	6630R-FB10L	2004-11-26	CONNECTOR (CIRC),FFC		SH
CN502	561-711J	2004-12-08	CONNECTOR (CIRC), WAF	R	SH
CN901	6630R-FB05L	2004-10-25	CONNECTOR (CIRC),FFC	R	SH
				R	
CN902	561-711E	2004-11-12	CONNECTOR (CIRC),WAF		SH
CN903	6631R-E078N	2004-12-10	CONNECTOR ASSEMBLY	R	SH
D101	0DD221009AA	2004-10-21	DIODE, RECTIFIERS	R	SH
D101	0DR400709AA	2004-10-21	DIODE,RECTIFIERS	R	SH
D101	0DRRE00163A	2004-10-21	DIODE, RECTIFIERS	R	SH
D105		2004-10-21	DIODE, RECTIFIERS	R	SH
	0DRGF00309A				
D106	0DRGF00309A	2004-10-21	DIODE,RECTIFIERS	R	SH
D107	0DRGF00309A	2004-10-21	DIODE, RECTIFIERS	R	SH
D108	0DRGF00309A	2004-10-21	DIODE,RECTIFIERS	R	SH
D121	0DR158220AA	2004-10-21	DIODE,RECTIFIERS	R	SH
D121	0DR810040BA	2004-10-21	DIODE, RECTIFIERS	R	SH
		2004-10-21	DIODE, RECTIFIERS	R	SH
D121	0DRGF00210A				
D123	ODSGF00030A	2004-10-21	DIODE,SWITCHING	R	SH
D125	0DD010009AC	2004-10-21	DIODE, RECTIFIERS	R	SH
			· · · · · · · · · · · · · · · · · · ·		
D125	0DR104009BA	2004-10-21	DIODE,RECTIFIERS	R	SH
D125	0DRGF00239A	2004-10-21	DIODE,RECTIFIERS	R	SH
D151	0DS141489BB	2004-10-21	DIODE,SWITCHING	R	SH
D601	0DS141489BB	2005-01-17	DIODE,SWITCHING	R	SH
DIG901	6301R2U014A	2004-10-25	LED ASSEMBLY	R	SH
F6A1	6200HJC901A	2004-12-14	FILTER(CIRC),EMC	R	SH
F6A2	6200HJC901A	2004-12-14	FILTER(CIRC),EMC	R	SH
F6A3	6200HJC901A	2004-12-14	FILTER(CIRC),EMC	R	SH
FR101	0RF0221K634	2004-10-21	RESISTOR, VARIABLE [CA	R	SH
IC101	0IPMGON024A	2004-10-21	IC, POWER MANAGEMENT	R	SH
IC102	6500RDB010A	2004-10-21	SENSOR	R	SH
IC102	657-063A	2004-10-21	SENSOR	R	SH
IC103	0IKE431000A	2005-01-14	IC,KEC	R	SH
IC103	0IPMGUK001A	2005-01-14	IC,POWER MANAGEMENT	R	SH
IC103	0ISS431000A	2005-01-14	IC, SAMSUNG ELECTRONI	R	SH
IC201		2004-10-12			
	OILNRIJ002A		IC,LINEAR	R	SH
IC501	OILNRNF010A	2004-10-15	IC,LINEAR	R	SH
IC502A	6957R-020CA	2005-01-08	PROGRAM	R	SH
IC503		2004-12-27	IC,MEMORIES		
	OIMMREBOOGC			R	SH
IC503	0IMMRHY001G	2004-12-27	IC,MEMORIES	R	SH
IC504	0IMMRSE002A	2004-11-18	IC,MEMORIES	R	SH
IC504	0ISS240210A	2004-11-18	IC, SAMSUNG ELECTRONI	R	SH
IC505	0IKE702900D	2005-01-06	IC,LINEAR	R	SH
IC505	0IPMGA0014A	2005-01-06	IC, POWER MANAGEMENT	R	SH
IC505	0IPMGAU007A	2005-01-06	IC, POWER MANAGEMENT	R	SH
IC601	0ILNRAU017A	2004-11-26	IC,LINEAR	R	SH
IC604	0IPRPMT008A	2004-11-26	IC,PERIPHERALS	R	SH
IC901	0IPRPPY007A	2004-10-29	IC,PERIPHERALS	R	KR
JK601	6612J00044F	2004-11-26	JACK,RCA	R	SH
JK6A1	6612M00003B	2004-11-26	JACK,SCART	R	SH
L100	6140RCC003K	2004-10-21	COIL,RF	R	SH
L101	6140RCC003J	2004-10-21	COIL,RF	R	SH
L102	6140RCC003J	2004-10-21	COIL,RF	R	SH
L121	6140R-C011A	2004-10-21	COIL,RF	R	SH
L121	633-088G	2004-10-21	COIL,CHOKE	R	SH
L122	6140R-C011A	2004-10-21	COIL,RF	R	SH
L122	633-088G	2004-10-21	COIL,CHOKE	R	SH
L201	0LR0102J025	2004-12-14	INDUCTOR, RADIAL LEAD	R	SH
L202	0LR0102J025	2004-12-14	INDUCTOR, RADIAL LEAD	R	SH
L204				R	
	6200HJC102A	2004-10-12	FILTER(CIRC),EMC		SH
L205	6200HJC102A	2004-10-12	FILTER(CIRC),EMC	R	SH
L206	6200HJC102A	2004-10-12	FILTER(CIRC),EMC	R	SH
L207	6200HJC102A	2004-10-12	FILTER(CIRC),EMC	R	SH
L208	0LCCE00004E	2004-10-12	INDUCTOR, CHIP	R	SH
L502			FILTER(CIRC),EMC	R	SH
	6200HJC102A	2004-11-16			
	6200HJC102A	2004-11-16			
L503	6200HJC102A	2004-11-16	FILTER(CIRC), EMC	R	SH
L503					
L504 ·	6200HJC102A	2004-11-16	FILTER(CIRC),EMC FILTER(CIRC),EMC	R	SH SH
	6200HJC102A 6200HJC102A	2004-11-16 2004-11-16	FILTER(CIRC), EMC	R R	SH

L507	0LR0102J025	2004-12-14	INDUCTOR, RADIAL LEAD	R	SH ·
L508	6200HJC102A	2004-11-16	FILTER(CIRC),EMC	R	SH
L509	0LR0331K025	2004-12-14	INDUCTOR, RADIAL LEAD	R	SH
L601	6200HJC102A	2004-12-09	FILTER(CIRC),EMC	R	SH
L901	6200HJC102A	2004-10-25	FILTER(CIRC),EMC	R	SH
P101	6631R-E078L	2004-11-10	CONNECTOR ASSEMBLY	R	SH
PW101	6630V90108A	2004-10-21	CONNECTOR (CIRC), WAF	R	SH
Q121	0TR127309AA	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q121	0TR127709AB	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q121	0TR928009AD	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q122	0TR319809AC	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q122	0TR319909AF	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q122	0TR534309BA	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q123	0TR320309AA	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q123	0TR534409AA	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q124	0TR103009AF	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q124	0TR220309AF	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q126	0TR186209AB	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q126	0TR232809AB	2005-01-14	TRANSISTOR, BIPOLARS	R	SH
Q126	0TR320509AB	2005-01-14	TRANSISTOR,BIPOLARS	R	SH
Q201	0TR103709BB	2004-10-12	TRANSISTOR, BIPOLARS	R	SH
Q201	0TR150409AC	2004-10-12	TRANSISTOR, BIPOLARS	R	SH
Q201	0TRAU80008A	2004-10-12	TRANSISTOR,BIPOLARS	R	SH
Q201	0TRON80008A	2004-10-12	TRANSISTOR,BIPOLARS	R	SH
Q202	0TR103709BB	2004-10-12	TRANSISTOR, BIPOLARS	R	SH
Q202	0TR150409AC	2004-10-12	TRANSISTOR, BIPOLARS	R	SH
Q202	0TRAU80008A	2004-10-12	TRANSISTOR,BIPOLARS	R	SH
Q202	0TRON80008A	2004-10-12	TRANSISTOR, BIPOLARS	R	SH
Q205	0TR387509AC	2004-10-15	TRANSISTOR, BIPOLARS	R	SH
Q205	0TRAU80017A	2004-10-15	TRANSISTOR, BIPOLARS	R	SH
Q205	0TRON80009A	2004-10-15	TRANSISTOR, BIPOLARS	R	SH
Q206	0TRRH80042A	2004-10-12	TRANSISTOR, BIPOLARS	R	SH
Q207	0TRRH80042A	2004-10-12	TRANSISTOR, BIPOLARS	R	SH
Q208	0TR127309AA	2004-12-29	TRANSISTOR, BIPOLARS	R	SH
Q208	0TR127709AB	2004-12-29	TRANSISTOR, BIPOLARS	R	SH
Q208	0TR928009AD	2004-12-29	TRANSISTOR, BIPOLARS	R	SH
Q600	0TR103709BB	2004-11-26	TRANSISTOR, BIPOLARS	R	SH
Q600	0TRAU80008A	2004-11-26	TRANSISTOR, BIPOLARS	R R	SH
Q600	0TRON80008A	2004-11-26	TRANSISTOR, BIPOLARS		SH
Q601	0TR387509AC	2005-01-08	TRANSISTOR, BIPOLARS	R	SH
Q601	0TRAU80017A	2005-01-08	TRANSISTOR, BIPOLARS	R R	SH
Q601	0TRON80009A	2005-01-08	TRANSISTOR, BIPOLARS	R ·	SH SH
Q602	0TR387509AC	2005-01-08	TRANSISTOR, BIPOLARS	R	SH
Q602	0TRAU80017A	2005-01-08	TRANSISTOR, BIPOLARS	R	SH
Q602	0TRON80009A	2005-01-08	TRANSISTOR,BIPOLARS TRANSISTOR,BIPOLARS	R	SH
Q603	0TR103009AC	2004-11-26 2004-11-26	TRANSISTOR, BIPOLARS	R	SH
Q603	0TRAU80012A	2004-11-26	TRANSISTOR, BIPOLARS	R	SH
Q603	0TRON80007A	2005-01-08	TRANSISTOR, BIPOLARS	R	SH
Q608	0TR387509AC	2005-01-08	TRANSISTOR, BIPOLARS	R	SH
Q608	0TRAU80017A	2005-01-08	TRANSISTOR, BIPOLARS	R	SH
Q608	0TRON80009A 0TR387509AC	2005-01-08	TRANSISTOR, BIPOLARS	R	SH
Q6A1		2005-01-08	TRANSISTOR, BIPOLARS	R	SH
Q6A1	0TRAU80017A	2005-01-08	TRANSISTOR, BIPOLARS	R	SH
Q6A1	0TRON80009A 0RS2203J618	2003-01-08	RESISTOR, FIXED METAL	R	SH
R103 R121	0RD1001F608	2004-10-21	RESISTOR, FIXED CARBON FILM	R	SH
R121	0RD3300F608	2004-10-21	RESISTOR, FIXED CARBO	R	SH
R122	0RD4702F608	2004-10-21	RESISTOR, FIXED CARBON FILM	R	SH
R124	0RD3900F608	2004-10-21	RESISTOR, FIXED CARBO	R	SH
R125	0RD3301F608	2004-12-15	RESISTOR FIXED CARBO	R	SH
R127	0RN1001F408	2004-10-21	RESISTOR, FIXED METAL	R	SH
R128	0RN3001F408	2004-10-21	RESISTOR, FIXED METAL	R	SH
R130	0RD1002F608	2004-10-21	RESISTOR, FIXED CARBON FILM	R	SH
R140	0RD2200F608	2004-10-21	RESISTOR, FIXED CARBO	R	SH
R143	0RD2200F608	2004-10-21	RESISTOR, FIXED CARBO	R	SH
R144	0RD1001F608	2004-10-21	RESISTOR, FIXED CARBON FILM	R	SH
R145	0RD1001F608	2004-10-21	RESISTOR, FIXED CARBON FILM	R	SH
R201	0RH0471C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R202	0RH0471C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R205	0RH1002C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R206	0RH1003C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R208	0RH1002C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R209	0RH1003C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R210	0RH0101D622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R211	0RJ7503C677	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R212	0RH3903C622	2004-10-12	RESISTOR,METAL GLAZE	R	SH
R213	0RH3903C622	2004-10-12	RESISTOR,METAL GLAZE	R	SH
R214	0RJ7503C677	2004-10-12	RESISTOR,METAL GLAZE	R	SH
R215	0RH0000C622	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R219	0RH1002C622	2004-10-12	RESISTOR, METAL CLAZE	R	SH
R222	0RH1001C622	2004-10-12	RESISTOR, METAL CLAZE	R	SH
R223	0RH1002C622	2004-10-12	RESISTOR,METAL GLAZE	R	SH
R225	0RH1502C422	2004-12-17	RESISTOR,METAL GLAZE	R	SH
R226	0RH2702C422	2004-10-12	RESISTOR,METAL GLAZE	R	SH
R227	0RH1202C622	2004-10-12	RESISTOR,METAL GLAZE	R	SH
R231	0RH1001C622	2004-10-12	RESISTOR,METAL GLAZE	R	SH
R232	0RH0000C622	2004-12-09	RESISTOR,METAL GLAZE	R	SH
R233	0RH0000C622	2004-12-09	RESISTOR,METAL GLAZE	R	SH
R236	0RH6802C622	2004-10-12	RESISTOR,METAL GLAZE RESISTOR,METAL GLAZE	R	SH SH
R238	0RH0000C622	2004-12-09	RESISTOR, METAL GLAZE RESISTOR, METAL GLAZE	R R	SH
R243	0RH2201C622	2004-10-12 2004-10-12	RESISTOR, METAL GLAZE	R R	SH
R244	0RH1002C622	2004-10-12 2004-12-09	RESISTOR, METAL GLAZE	R R	SH
R265	0RH0000C622 0P 17503C677	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R501	0RJ7503C677	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R502 R503	0RH1003C622 0RH1502C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R503 R504	0RH3301C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
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DEGE	001110000000	2004-10-12	RESISTOR, METAL GLAZE	_	
R505	0RH1003C622			R	SH
R506	0RH0000C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R507	0RH0000C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R509	0RH1001C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R510	0RH1001C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R511	0RH0000C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R512	0RH5600D622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R517	0RH0000C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R518	0RH0101D622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R519	0RH0101D622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R520	0RH0332C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R521	0RH0332C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R522	0RH0332C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R524	0RH0332C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R525	0RH0332C622	2004-10-12	RESISTOR, METAL GLAZE	R	
					SH
R526	0RH0332C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R527	0RH1002C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R528	0RH1802C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R529	0RH1802C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R530	0RH1202C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R533	0RH0000C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R534	0RH0000C622	2004-11-16	RESISTOR, METAL GLAZE	R	
					SH
R535	0RH0000C622	2004-11-16	RESISTOR,METAL GLAZE	R	SH
R536	0RH0000C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R537	0RH1001C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R538	0RH0682C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R539	0RH1001C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R540	0RH1002C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R541	0RH1002C622	2004-11-16		R	
			RESISTOR,METAL GLAZE		SH
R543	0RH0332C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R544	0RH0332C622	2004-10-12	RESISTOR, METAL GLAZE	R	SH
R545	0RH1002C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R546	0RH0332C622	2004-10-12	RESISTOR, METAL GLAZE	R	. SH
R547	0RH1002C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R548	0RH1002C622	2004-11-16	RESISTOR, METAL GLAZE	R	SH
R549		2004-11-16			
	0RH1002C622		RESISTOR,METAL GLAZE	R	SH
R600	0RH1001C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R601	0RH0000C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R602	0RH0000C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R603	0RH6801C622	2004-12-06	RESISTOR, METAL GLAZE	R	SH
R604	0RH6801C622	2004-12-06	RESISTOR, METAL GLAZE	R	SH
R605	0RH2202C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R606		2004-11-26			
	0RH2202C622		RESISTOR, METAL GLAZE	R	SH
R607	0RH5101C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R608	0RH5101C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R609	0RH2200C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R610	0RH2200C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R611	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R614	0RH0000C622	2004-11-26	RESISTOR,METAL GLAZE	R	
					SH
R616	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R617	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R618	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R619	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R620	0RH0000C622	2004-11-26	RESISTOR METAL GLAZE	R	SH
R621	0RH0000C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R622	0RH0000C622	00044400		_	
		2004-11-26	RESISTOR, METAL GLAZE	R	SH
R623	0RH0000C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R626	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R627	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R628	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R635	0RH0000C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R649	0RH0000C622	2004-11-26	RESISTOR,METAL GLAZE	R	
R650	0RH3300C622	2004-11-26			SH
			RESISTOR, METAL GLAZE	R	SH
R651	0RH3300C622	2004-11-26	RESISTOR,METAL GLAZE	R	SH
R652	0RH1003C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R653	0RH1003C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R654	0RH4701C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R660	0RH5601C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R661	0RH4701C622	2004-11-26	RESISTOR,METAL GLAZE	R	SH
R662	0RH1001C622	2004-11-26	RESISTOR, METAL GLAZE	R	
R669			· ·		SH
	0RH0752C422	2004-12-09	RESISTOR,METAL GLAZE	R	SH
R670	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R671	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R672	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R675	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R676	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	SH
R677	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	
R678					SH
	0RH0752C422	2004-12-09	RESISTOR,METAL GLAZE	R	SH
R680	0RH1001C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R681	0RH4701C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R682	0RH1002C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R6A1	0RH6800C622	2005-01-08	RESISTOR, METAL GLAZE	R	SH
R6A2	0RH1003C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R6A3	0RH6800C622	2005-01-08	RESISTOR, METAL GLAZE		
				R	SH
R6A4	0RH2200C622	2004-11-26	RESISTOR,METAL GLAZE	R	SH
R6A5	0RH2200C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R6A6	0RH1003C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R6A7	0RH1003C622	2004-11-26	RESISTOR METAL GLAZE	R	SH
R6W1	0RH1200C622	2004-11-26	RESISTOR, METAL GLAZE	R	SH
R6W2	0RH0752C422	2004-12-09	RESISTOR, METAL GLAZE	R	
R901					SH
	0RH5102C622	2004-10-25	RESISTOR, METAL GLAZE	R	SH
R902	0RH4701C622	2004-10-25	RESISTOR, METAL GLAZE	R	SH
R903	0RH4701C622	2004-10-25	RESISTOR, METAL GLAZE	R	SH
R904	0RH4701C622	2004-10-25	RESISTOR, METAL GLAZE	R	SH
R905	0RH4701C622	2004-10-25	RESISTOR, METAL GLAZE	R	SH
R906	ORH4701C622	2004-10-25	RESISTOR, METAL GLAZE	R	SH
R907		2004-10-25			
	0RH0471C622	2004-10-23	RESISTOR,METAL GLAZE	R	SH

RC901	6712R1238HA	2004-10-29	REMOTE CONTROLLER RE	R	SH
SW901	6600R000028	2004-10-25	SWITCH, TACT	R	SH
SW901	6600R000039	2004-10-25	SWITCH,TACT	R	SH
SW902	6600R000028	2004-10-25	SWITCH, TACT	R	SH
SW902	6600R000039	2004-10-25	SWITCH, TACT	R	SH
SW903	6600R000028	2004-10-25	SWITCH, TACT	R	SH
SW903	6600R000039	2004-10-25	SWITCH,TACT	R	SH
SW904	6600R000028	2004-10-25	SWITCH, TACT	R	SH
SW904	6600R000039	2004-10-25	SWITCH, TACT	R	SH
T101	6170RNGW05N	2004-10-21	TRANSFORMER, SMPS[COI	R	SH
V101	656-004C	2004-10-21	VARISTOR, DRAWING	R	SH
X501	6202R-BL06C	2005-01-11	RESONATOR, CRYSTAL	R	´ SH
X501	6212AA2270F	2005-01-11	RESONATOR, CRYSTAL	R	SH
X501	6212AA2270G	2005-01-11	RESONATOR, CRYSTAL	R	SH
ZD151	0DZ132609AB	2004-10-21	DIODE,ZENERS	R	SH
ZD152	0DZ562609AA	2004-10-21	DIODE, ZENERS	R	SH